

# SARA DARWICH CHAMAS

## SENIOR AI FULL-STACK DEVELOPER | SOFTWARE ARCHITECT

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### PROFESSIONAL SUMMARY

Senior AI Full-Stack Developer and Software Architect with 8+ years of professional experience designing, developing, and maintaining enterprise software, AI-powered systems, data analytics platforms, and cross-platform applications. Specialized in end-to-end software engineering, combining business requirements analysis, solution architecture, frontend and backend development, database design, AI agent orchestration, enterprise integrations, automated testing, and deployment.

Hands-on experience architecting multi-agent AI platforms with 40+ specialized agents, integrating multiple large language models, and developing automated software delivery workflows. Experienced in modernizing business intelligence reporting systems and building secure, scalable applications across fintech, telecommunications, e-commerce, and enterprise operations.

Strong background in TypeScript, React, Angular, Next.js, Node.js, Java Spring Boot, SQL databases, and distributed background processing. Experienced in delivering engineering solutions for organizations and clients across Lebanon, the UK, Norway, and the GCC.

### PROFESSIONAL EXPERIENCE

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| <b>MONTY HOLDING — Beirut, Lebanon</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | November 2022 – Present  |
| <b>Full Stack Developer — Data Department</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | September 2026 – Present |
| <ul style="list-style-type: none"><li>Develop and enhance an enterprise telecommunications analytics platform using Next.js, TypeScript, NestJS, and ClickHouse, supporting the migration of Power BI reports into native web applications.</li><li>Build interactive reporting interfaces incorporating KPI cards, data tables, advanced visualizations, report-level filters, cross-filtering, configurable date ranges, and responsive layouts.</li><li>Engineer reusable frontend components and integrate backend reporting APIs with analytical datasets, ensuring consistent aggregation, metric definitions, and reliable data presentation.</li><li>Develop an AI-assisted report creation workflow that converts natural-language requests into configurable report structures, with proposed changes, real-data previews, Apply/Undo controls, and governed publishing capabilities.</li><li>Implement report authorization and role-based access rules for report execution, publishing, certification, and data scope restrictions.</li><li>Collaborate with data and backend teams to investigate missing datasets, validate warehouse queries, identify data inconsistencies, and verify report behavior against existing business intelligence outputs.</li><li>Improve reporting quality through Playwright E2E testing, automated regression checks, TypeScript validation, and visual QA. Contributed to work validated by a clean 281/281 E2E test run and the elimination of 92 layout shifts across reporting pages.</li></ul> |                          |
| <b>AI Full-Stack Developer — AI Development</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | July 2026 – August 2026  |
| <ul style="list-style-type: none"><li>Developed and enhanced a multi-agent AI software engineering platform incorporating 40+ specialized agents across a 24-stage development workflow, covering requirements, architecture, frontend, backend, databases, testing, and delivery.</li><li>Worked with a TypeScript monorepo architecture using React, Vite, Node.js, Express, Microsoft SQL Server, Redis, and BullMQ for full-stack functionality and asynchronous processing.</li><li>Integrated OpenAI, Anthropic Claude, and Google Gemini using LangChain and LangGraph to coordinate agent workflows, structured responses, tool execution, and shared execution context.</li><li>Implemented AI workflow reliability features including response validation, model routing and fallback, cancellation handling, execution progress tracking, and human approval checkpoints.</li><li>Developed browser-based development tooling with Monaco Editor, AI-assisted code generation, application previews, and real-time execution feedback using Socket.IO and terminal integration.</li><li>Integrated external development and productivity systems through OAuth-based connections, including GitHub, GitLab, Jira, Figma, and Microsoft 365.</li><li>Improved generated application quality through code validation, dependency installation checks, TypeScript compilation, runtime debugging, and build verification.</li></ul>                                                                                                          |                          |

## Senior Web Developer — MyMonty

November 2022 – June 2026

- Architected and developed enterprise web applications using React, Angular, TypeScript, and Nx Workspace microfrontend architecture, emphasizing modularity, component reuse, and maintainable code.
- Built complex frontend features including enterprise file management, administrative dashboards, business workflows, user management, and responsive application interfaces.
- Designed and implemented backend services and RESTful APIs using Node.js, Java Spring Boot, and PHP, integrating business logic with relational databases and external services.
- Developed secure application functionality with OAuth 2.0, OpenID Connect, Keycloak, JWT authentication, and role-based access control.
- Contributed to fintech and digital service platforms, including customer onboarding, account management, payment-related integrations, and operational administration.
- Developed custom CMS solutions, e-commerce functionality, and Shopify integrations covering catalogue operations, backend connectivity, and storefront requirements.
- Participated in solution design, API integration, technical debugging, application optimization, deployment support, and cross-team engineering delivery.

## Freelance Full-Stack Developer

February 2024 – Present

WESTYLIZE LTD — London, UK / Beirut, Lebanon

- Delivered 25+ client projects involving custom websites, e-commerce solutions, CMS platforms, business applications, and digital services.
- Managed the software development lifecycle from client discovery and requirements analysis through architecture, implementation, integrations, deployment, and maintenance.
- Designed responsive frontend interfaces and integrated backend APIs, authentication, content management, databases, and third-party services.
- Provided technical consultation, implementation planning, and production support as the primary developer across client engagements.

## Full-Stack Web Developer

March 2023 – May 2023

RUDR TECH — Oslo, Norway

- Developed HR analytics dashboards and reporting interfaces using React, Node.js, and integrated backend APIs.
- Optimized API processing and frontend rendering to reduce report generation latency by 40%.
- Supported containerized development environments, application improvements, and automated deployment workflows.

## Web Developer

March 2021 – November 2022

TURNKEY SYSTEMS SARL — Lebanon

- Developed Angular-based enterprise applications used by 50+ banks and retailers across the MENA region.
- Implemented business interfaces, reusable UI components, and API integrations supporting financial and retail operations.
- Refactored shared components, reducing duplication and improving maintainability by 25%.
- Contributed to automated build processes, deployment pipelines, bug resolution, and application maintenance.

## Software Operations Developer

April 2018 – February 2021

ICLEB — Lebanon

- Maintained and enhanced accounting, inventory, and stock management systems supporting 50+ SMEs.
- Implemented business functionality, database operations, UI improvements, and application maintenance.
- Automated backup processes and improved usability, contributing to a 30% reduction in support requests.
- Provided troubleshooting, technical support, and ongoing software improvements for business users.

## EARLY CAREER EXPERIENCE

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### iOS Developer Intern

January 2018 – April 2018

Torch Academy SARL

Worked on Swift and UIKit interfaces, push notifications, mobile application functionality, and testing.

### Web Developer Intern

July 2016 – August 2016

Eddys Group

Developed PHP and MySQL functionality for administrative modules and a web-based content management system.

# INDEPENDENT SOFTWARE ENGINEERING

## Full-Stack Application & Platform Architecture

June 2026 – Present

### Independent

- Designing and developing a multi-application commerce and delivery ecosystem consisting of a customer mobile app, customer web application, driver app, merchant portal, and operations back office.
- Architecting a shared backend with centralized authentication, role-based permissions, Microsoft SQL Server, Redis, background queues, and real-time communication.
- Implementing interconnected order management, dispatch, live tracking, product catalogues, merchant administration, notifications, and operational workflows.
- Designing financial workflows including payments, digital wallets, refunds, invoicing, merchant settlements, and reconciliation.
- Developing cross-platform mobile functionality using React Native and Expo, with shared APIs and platform-specific integrations.
- Applying modular architecture, reusable services, API contracts, and security considerations to support future scalability and maintainability.

## TECHNICAL SKILLS

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Programming Languages           | TypeScript, JavaScript, Java, PHP, Dart, SQL; working knowledge of Python and Swift.                                                                                                                                                     |
| Frontend Development            | React, Angular (v2–v19), Next.js, Vite, Tailwind CSS, HTML5, CSS3, Nx Workspace, Microfrontends, Responsive UI, Design Systems.                                                                                                          |
| Backend Engineering             | Node.js, Express.js, NestJS, Java Spring Boot, PHP, RESTful APIs, WebSockets, Socket.IO, Server-Sent Events, Background Workers, Scheduled Jobs.                                                                                         |
| AI Engineering                  | OpenAI, Anthropic Claude, Google Gemini, LangChain, LangGraph, AI Agents, Multi-Agent Orchestration, Prompt Engineering, Structured Outputs, Tool Calling, Model Routing, Human-in-the-Loop Workflows, AI Workflow Automation, MCP, n8n. |
| Databases & Data Platforms      | Microsoft SQL Server, ClickHouse, PostgreSQL, MySQL, Redis, Prisma, Data Modeling, Reporting APIs, Analytics Dashboards, Data Validation.                                                                                                |
| Mobile Development              | React Native, Expo, Flutter, Dart, Swift, UIKit.                                                                                                                                                                                         |
| Architecture & Security         | Software Architecture, Modular Monoliths, Microfrontends, API Design, Event-Driven Systems, Asynchronous Processing, OAuth 2.0, OpenID Connect, JWT, Keycloak, RBAC, Azure Entra ID.                                                     |
| DevOps & Quality Engineering    | Git, Docker, Docker Compose, GitHub Actions, GitLab CI/CD, CI/CD Pipelines, Playwright, Vitest, Integration Testing, E2E Testing, TypeScript Type Checking, ESLint.                                                                      |
| Enterprise Integrations & Tools | Jira, Figma API, GitHub/GitLab APIs, Microsoft Graph API, Microsoft Teams Integrations, Shopify, WordPress, Monaco Editor, Agile/Scrum.                                                                                                  |

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

### Anthropic Academy — 2026

Claude Code in Action · Agent Skills · Model Context Protocol — Introduction & Advanced · Subagents · Claude Cowork

### Google & Microsoft — 2025–2026

Google AI Essentials · Enterprise Product Management Fundamentals · Google Digital Marketing Certification

### IBM & SkillUp — 2026

Introduction to Software Engineering · Object-Oriented Programming in Java · Java Programming Fundamentals · Spring Framework for Java Development

## EDUCATION

### Bachelor of Science in Computer Science

Lebanese University — Hadath, Lebanon · 2014–2017

### Diploma in Artificial Intelligence

## LANGUAGES

Arabic — Native

English — Professional Working Proficiency