

# Malak Joumaa

## Senior Full Stack Engineer · AI-Native Development

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### PROFESSIONAL EXPERIENCE

#### Celsia / ISS Corporate

Enterprise sustainability reporting platform · React · TypeScript · GraphQL · PostgreSQL ·  
200+ enterprise clients

##### Lead Software Engineer Feb 2025 – Present | Remote

- **Tech Leadership:** Serve as primary engineering decision-maker for a team of 5, owning architecture planning, sprint delivery, code quality standards, and technical direction across the reporting platform
- **System Architecture:** Re-architected the core reporting platform from a tightly coupled monolith into a modular multi-framework system in 4 weeks, shipped to the full enterprise client base with zero regressions
- **Cloud and Infrastructure:** Manage AWS infrastructure across EC2, ECS containers, S3 storage, and Lambda functions to support platform scalability and reliability
- **Performance Engineering:** Drove platform-wide performance gains through GraphQL query optimization, database indexing, computed columns, and frontend rendering improvements that eliminated critical bottlenecks
- **Product Influence:** Function as the engineering voice in roadmap planning, defining technical tradeoffs, unblocking feasibility decisions, and steering scope to protect long-term platform health
- **Mentorship:** Guide engineers at all levels through architecture reviews, structured debugging, and growth-focused technical coaching

##### Software Engineer Jul 2023 – Feb 2025 | Remote

- **Feature Delivery:** Delivered ESRS reporting module from zero to production in 6 weeks under a hard regulatory deadline, adopted across the full enterprise client base
- **Frontend Architecture:** Built complex, data-heavy reporting interfaces across ESRS, EU Taxonomy, and PAI domains using React and TypeScript, handling dynamic data structures and evolving compliance requirements
- **Backend and APIs:** Designed scalable GraphQL APIs, database schemas, and reporting workflows supporting enterprise clients with varying compliance configurations
- **Engineering Standards:** Established reusable architecture patterns across frontend, backend, and database layers that became team-wide standards

##### Junior Software Engineer Sep 2022 – Jul 2023 | Remote

- **Delivery:** Contributed to frontend features, debugging, and testing from week one on a complex enterprise reporting platform
- **Promotion:** Promoted to Software Engineer within 10 months based on consistent delivery, ownership, and technical growth

### FREELANCE AND SIDE PROJECTS

#### Sanna Feb 2026 – Present | Remote

##### Freelance Senior Engineer · AI Agentic Specialist

AI-powered accounting platform · TypeScript · SvelteKit · Supabase · PostgreSQL

- **Agentic Engineering:** Operate as a fully AI-native engineer using Claude Code in conductor and connector mode with custom MCPs, reusable skills, and agent rules to architect and ship production features at a fraction of traditional development time
- **AI Systems:** Architected a production LLM document parsing pipeline that replaced fully manual transaction-by-transaction data entry with an automated workflow processing bank statements and investment reports end-to-end
- **AI Safety Design:** Designed a human-in-the-loop validation layer so operators can review, correct, and approve AI-parsed output before commit, ensuring production accuracy without sacrificing automation gains
- **Full Stack Delivery:** Built the complete operational platform solo including a scheduling engine, workflow history, audit trails, pause and resume controls, and external accounting service integrations, shipped entirely through AI-assisted workflows
- **MCP Toolchain:** Engineered custom MCP integrations, agent rules, and reusable skill definitions forming a personal AI engineering framework that delivers senior-level output with minimal overhead

### SUMMARY

Senior Full Stack Engineer with 4+ years at a fast-scaling European SaaS company, promoted from Junior to Lead. Active AI agentic engineering practice running in parallel. Expert in React, TypeScript, GraphQL, and PostgreSQL. Ships real production features using Claude Code conductor and connector mode, custom MCPs, and agentic workflows. AWS-experienced across EC2, ECS, S3, and Lambda.

### TECHNICAL SKILLS

#### Languages

TypeScript, JavaScript, SQL, Python

#### Frontend

React.js, SvelteKit, Next.js,  
Chakra UI, Tailwind CSS

#### Backend and APIs

Node.js, Express.js, GraphQL,  
REST APIs, Hasura, Supabase, Nhost

#### Databases

PostgreSQL, MongoDB

#### Cloud Computing

AWS (EC2, ECS, S3, Lambda),  
Vercel, serverless architecture

#### AI and Agentic Tooling

Claude Code (agentic), Cursor,  
MCP integrations, GPT-4,  
LLM pipelines, prompt engineering

#### DevOps and Tools

Git, GitHub, CI/CD, Linear,  
Sentry, PostHog, Apollo Client

### KEY ACHIEVEMENTS

- **Agentic AI:** Shipping production features solo using Claude Code conductor and connector mode with custom MCPs
- **LLM Pipeline:** Built and deployed AI document parsing pipeline replacing fully manual data entry
- **Zero-regression Migration:** Monolith to modular multi-framework system in 4 weeks with zero regressions
- **Delivery Speed:** Greenfield ESRS module shipped to the full enterprise client base in 6 weeks under a regulatory deadline
- **Leadership:** Primary decision-maker leading a 5-person engineering team across concurrent initiatives
- **Career Growth:** Junior to Lead Engineer at the same organization in under 3 years

### EDUCATION

#### American University of Science and Technology

BSc Computer Science | 2021

#### SE Factory

Full-Stack Web Development Bootcamp | 2022

### LANGUAGES

Arabic Native English Professional