

Laila Alhalabi

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Full-Stack Developer experienced in building scalable software systems, modern frontend experiences, real-time monitoring platforms, and production-ready SaaS applications. Skilled in delivering secure, maintainable, and high-performance solutions with strong attention to reliability, usability, and long-term scalability.

EXPERIENCE

Full-Stack Developer

Avenum Solutions, Montreal, Quebec

Apr 2025 - Present

- Built an end-to-end IoT vibration anomaly detection pipeline using per-machine Isolation Forest models and real-time scoring.
- Integrated ML predictions into the AWS IoT/Lambda ingestion workflow with vibration alerts, thresholds, cooldowns, and email notifications.
- Contributed to API integrations and real-time data pipelines supporting predictive maintenance workflows and digital twins.
- Developed dashboards, customer telemetry views, and sensor analysis for temperature, vibration, humidity, and pressure data.
- Built Metareal integration with 2D and 3D views for visualizing spaces and sensor context.
- Implemented authenticated routes, login flows, and role-based access control.
- Created scripts to compare legacy alert logic against ML-based predictions.
- Automated build and deployment workflows using GitHub Actions.
- Documented architecture, deployment process, migration plans, and security risks.

Tech Stack: React, TypeScript, PHP, Python, MySQL, AWS IoT, AWS Lambda, GitHub Actions, cPanel, JWT, Metareal, El Analytics, scikit-learn.

Full Stack Engineer Intern

Armonía, Montreal, Quebec

Feb 2024 - Jul 2024

- Contributed to the development of a scalable beauty services platform using React, Next.js, TypeScript, Prisma, Docker, and AWS.
- Built reusable UI architecture and 20+ production-ready components to improve consistency and maintainability.
- Developed and optimized booking workflows, scheduling logic, and customer-facing interfaces across 10+ application pages.
- Collaborated on API integrations and database-driven features to support real-time booking operations.
- Created 70+ high-fidelity Figma prototypes and translated designs into responsive production interfaces.
- Participated in code reviews, debugging, testing, and technical documentation to improve code quality and team collaboration.

Tech Stack: React.js, Next.js, TypeScript, Prisma, Docker, AWS, PostgreSQL, Figma, Git, GitHub

Software Developer

Sharp View, Montreal, Quebec

Mar 2023 - Feb 2024

- Led the architecture and delivery of a full-stack SaaS web application and internal admin/CMS dashboard, establishing reusable UI patterns, maintainable frontend structure, and scalable client-server workflows.
- Built secure subscription and billing workflows, including checkout, customer portal access, lifecycle handling, and webhook processing.
- Implemented authentication, user management, and customer-specific data flows to support secure account access and personalized SaaS experiences.
- Delivered multilingual support, improving accessibility and readiness for international users.
- Improved platform reliability and security through protected APIs, rate limiting, transactional email workflows, and responsive UI enhancements.
- Managed production deployment on a private VPS, configuring frontend hosting, backend services, environment variables, and server routing for reliable SaaS delivery.

Tech Stack: React.js, Node.js, Express.js, JavaScript, Firebase Auth, Firestore, Firebase Admin SDK, Stripe, Resend, Material UI, Context API, Framer Motion, Apache

EDUCATION

Bachelor of Engineering, Computer Software Engineering

Concordia University, Montreal, QC

2019 - 2023

- Graduated with Distinction
 - Key Courses: Object-Oriented Programming, Web Programming, Databases, User Interface Design, Software Process, Data Structures & Algorithms
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SKILLS

Languages: Java, Python, PHP, JavaScript, TypeScript, SQL

Frameworks/Libraries: Node.js, React.js, React Native, Next.js, Express, Spring, Redux

DevOps & Tools: Git, GitHub, GitHub Actions, AWS, Docker, Jenkins, Postman, Jest, JUnit, Figma, Slack

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Firestore, Prisma

APIs & Services: Stripe, Auth.js, Resend, Firebase Authentication

LANGUAGES

English (Fluent), French (Intermediate), Arabic (Fluent)