

AMIR GAOUAOU

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PROFESSIONAL SUMMARY

Staff Software Engineer with 8+ years of experience building client solutions and architecting features across the entire web stack. Specialized in React/TypeScript development, AWS cloud services, and full-stack system design. Proven track record of delivering high-quality software on time, enhancing user experiences, and collaborating with teams to successfully implement complex technical solutions.

TECHNICAL SKILLS

Languages: TypeScript/JavaScript/Web, Python, Java, Terraform

Cloud/Infrastructure: AWS (EC2, Lambda, RDS, S3, CloudWatch, SNS), CI/CD, Docker, Firebase

Frameworks/Libraries: React, Next.js, Node.js, Express, MobX, TanStack Query, Tailwind CSS

Database: PostgreSQL, MongoDB, Redis, DynamoDB

Tools & Practices: Git, Agile/Scrum, Jest, Cypress, E2E Testing, GitLab CI, Circle CI

PROFESSIONAL EXPERIENCE

WATS (Remote)

Staff Software Engineer & Consultant | September 2021 - November 2022, March 2023 - March 2025

- Developed data-driven insights features for waste management optimization, including schedule efficiency recommendations and vendor rate negotiation tools that improved client decision-making
- Architected and implemented data visualization system using Next.js and Tanstack Query, enhancing dashboards with interactive tooltips, confidence indicators, and contextual metrics
- Built and architected an automated notification system triggered by AWS Lambda functions, resulting in 100% timely delivery of critical data alerts, improved user engagement through personalized notifications, and reduced manual monitoring needs for both users and administrators
- Engineered robust data entry and management system featuring interactive data grids, dynamic filtering, and improved UX for waste tracking

Mendix/Siemens (Remote)

Implementation Consultant | February 2020 - September 2021

- Collaborated with Fortune 500 clients including Medtronic, Ryerson, and Northern Trust to architect and develop cloud-based web and mobile applications and solutions
- Led cross-functional project teams using Agile methodologies, ensuring seamless execution from concept to deployment
- Designed responsive interfaces and implemented complex business logic using Java, ReactJS, TypeScript, and PostgreSQL
- Provided technical leadership in client workshops to capture requirements and translate business needs into technical solutions

IBM Canada (Ottawa, ON)

Cloud Console Developer | February 2017 - February 2020

- Developed critical microservices for the IBM Cloud console platform, including Registration, Login, and Notifications/Status services using ReactJS, NodeJS, Kubernetes, and Docker
- Designed and implemented end-to-end monitoring tools that detected and addressed over 30 live incidents within a year, significantly improving platform stability and customer satisfaction
- Took charge of a critical project, creating an internal framework that empowered marketing teams to swiftly generate custom registration campaigns. This significantly reduced the campaign creation time to under 10 minutes, driving a notable increase in new user registrations for events.

EDUCATION

Bachelor of Applied Science, Software Engineering (COOP) | University of Ottawa, 2017

- Awarded \$8,000 in academic scholarships

PROJECTS

Pickr: User-generated game platform (AWS Lambda, DynamoDB, SST, React, TypeScript) | www.pickr.lol

Travelwith.ai: AI-powered travel planner (React, Next.js, MongoDB, OpenAI) | <https://travelwith.ai>

ThingsToDoBeforeDying: A React Native app used to build the Minimum Regret Framework and track goals