

Saerom Lee

Full-Stack Software Developer

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PROFESSIONAL SUMMARY

Full-stack developer with hands-on experience building and deploying production-grade web applications across the MEAN and Firebase/React stacks. Comfortable owning a feature end-to-end — from REST API and database design through authentication, security rules, and cloud deployment. Background in IT infrastructure support adds a practical, troubleshooting-first approach to debugging and system reliability.

KEY SKILLS

Languages & Frameworks: JavaScript, TypeScript, Java, C#, React, Angular, Node.js, Spring Boot, Express, HTML/CSS

Database & Cloud: Firebase, Firestore, MongoDB, MySQL, NoSQL, AWS, Cloud Functions, Firebase Hosting, Hadoop

APIs & Auth: RESTful API design, CRUD operations, Firebase Authentication, role-based access control, PayPal API integration

Testing & Tools: Mocha, Chai, Cypress, unit & end-to-end testing, Git, Linux/UNIX, Windows

RELEVANT PROJECTS

Triangle Territory — Personal Project

2026

React, Vite, Supabase, Vercel

- Built and shipped a real-time multiplayer strategy game where players connect dots to claim triangular territory, supporting both AI opponents and online head-to-head matches.
- Designed a Supabase-backed leaderboard and daily-challenge system to drive repeat engagement, with bilingual (Korean/English) SEO metadata for organic discovery.
- Deployed and maintained the app on Vercel, independently handling the full stack from game logic to backend data persistence.

Capstone Project – Warm Fuzzies Animal Care — Sheridan College Capstone Competition Finalist

Jan 2024 – Dec 2024

MongoDB, Express, Angular, Node.js, PayPal API, Mocha, Chai, Cypress

- Designed and built a full-stack appointment booking system on the MEAN stack, selected as a finalist among Sheridan College's 2024 Capstone Competition teams.
- Integrated secure PayPal payment processing to handle end-to-end booking and payment flows.
- Wrote unit and end-to-end test suites with Mocha, Chai, and Cypress, improving confidence in release reliability across core booking workflows.

EXPERIENCE

Freelance Full-Stack Developer — Dignity Healthcare App

2025 – 2026

React, TypeScript, Firebase, Firestore, Cloud Functions, Firebase Authentication, Brevo

- Engaged as a paid freelance developer to build a full-stack healthcare order management web app for care homes, covering order placement, order tracking, and admin dashboards used by two distinct user roles.
- Designed role-based access control with Firebase Authentication custom claims and Firestore security rules to separate home-user and admin permissions at the data layer.
- Automated order-status email notifications via Cloud Functions and the Brevo API, removing the need for manual status updates.
- Deployed and maintained the application on Firebase Hosting with a serverless backend for scalability and low operating overhead.

IT Infrastructure Support Analyst (Co-op) — Canada Revenue Agency

Remote | Jan 2023 – Aug 2023

- Resolved 100+ technical issues and received 3+ formal kudos for delivering timely, high-quality support to end users.
- Diagnosed network connectivity, hardware, software, account access, and security credential issues across multiple systems.
- Documented recurring issues and improved internal ticketing workflows while following federal security standards.

Server — Issmi Sushi Japanese Restaurant, Toronto, ON

June 2024 – Present

- Delivered efficient customer service in a fast-paced environment while coordinating with team members to support smooth daily operations.

EDUCATION

Information Systems Engineering — Advanced Diploma

Sheridan College, Brampton, ON | Sep 2021 – Dec 2024

Bachelor of Business Administration

National Institute for Lifelong Education (NILE), Seoul, Korea | 2011 – 2016