

Quoc Le

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Education

Bachelor of Computing in Computer Science (Co-op)

University of Guelph

September 2023 - Present

Canada

- Minor in Geomatics
- Relevant Coursework: Data Structure & Algorithm, OOP, Discrete Structure, Operating Systems

Technical Skills

Languages: TypeScript, Python, C, SQL, Java, JavaScript, HTML/CSS

Frameworks: React, Node.js, Next.js, SaaS, TailwindCSS, Firebase

Developer Tools: Git, Docker, PostgreSQL, Visual Studio, Prisma, Zod

Experience

Embedded Software Developer Intern

October 2025 - December 2025

Sardinia, Italy

- Abinsula*
- Programmed distributed IoT system with 3 ESP32 microcontrollers, implementing REST API server, ESP-NOW/TCP protocols, and 5-level water sensor detection (XKC-Y25) with motorized valve control.
 - Built Android application enabling real-time remote monitoring and pump control through REST API integration
 - Conducted hardware-software integration testing across all controllers, debugging communication protocols to ensure fail-safe operation.

Full-Stack Developer Intern

June 2025 - October 2025

Sardinia, Italy

Abinsula

- Designed database schema and ORM operations using Prisma/PostgreSQL for e-commerce platform, implementing type-safe validation with Zod.
- Developed full-stack checkout system integrating Stripe payment API, including responsive UI and secure backend endpoints.
- Mentored 2 fellow interns through code review process while completing development tasks 2-3 days ahead of sprint deadlines.

IT Support Specialist

May 2024 – August 2024

Fracht Group

Kampala, Uganda

- Set up and configured 80+ employee workstations including hardware assembly, system installation, and network connections, supporting finance department onboarding.
- Provided technical support and account management resolving software/printer issues and configuring user authentication, maintaining secure department workflow.

Google Developer Club Event Staff

May 2024

University of Guelph

Guelph, ON

- Co-led intro to React workshop and provided ongoing mentoring assisting 250+ participants with coding challenges and debugging, supporting student development throughout 3-day event.

Projects

frijio | React-native, Supabase, Yolov11

July 2025 - Present

- Building cross-platform fridge management app with React Native and Supabase backend, implementing ML-powered food detection using ESP32 CAM hardware.
- Developing automated inventory system with receipt scanning via Google Vision OCR and AI-driven recipe recommendations based on available ingredients.

AssetPortfolio | Java

March 2025

- Built investment portfolio management application using Java and Swing GUI with object-oriented design, enabling users to track stock/mutual fund positions with persistent local file storage.

Me's Restaurant | JavaScript, HTML/CSS

July 2023

- Designed and developed a full-featured website for a local restaurant, with a responsive menu and intuitive UI, attracted 150+ users.