Oakar Oo

Computer Science Student | Backend & Full-Stack Developer

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Computer Science undergrad at KMUTT looking for a **software engineering internship**. I build **backends in TypeScript (Express, Prisma, SQLite)** and **frontends in React / Next.js**, deployed with Docker, Nginx and CI/CD on Azure. Java + Web Dev mentor and Microsoft Student Ambassador.

Education

Bachelor of Science in Computer Science
King Mongkut's University of Technology Thonburi, Bangkok
2024 – Expected 2028

Bachelor of Science in Business Administration
University of the People, Pasadena, California
2026 – Expected Nov 2028

Skills

Languages	TypeScript, JavaScript, Java, Python, SQL
Web & Backend	React, Next.js, Tailwind CSS, Node.js, Bun, Express, NestJS, Hono, Prisma
Databases	PostgreSQL, SQLite, MongoDB
Tools & Infra	Docker, Nginx, GitHub Actions, Azure, Cloudflare, Git, Linux CLI, Swagger / OpenAPI, Figma

Experience

Computer Science Programming Mentor in Java — Aug 2026 – Present
KMUTT, Programming in Java · Course Mentorship

- Mentor **18 first-year CS students** in Programming in Java with weekly sessions on logic, syntax and OOP.
- Give 1:1 code reviews and debugging help, and help students prepare for exams and quizzes.

Research Intern — Jun 2026 – Jul 2026
IC2 (Innovative Cognitive Computing), KMUTT · CogniMax Chess Research

- Built **CogniMax**, a chess engine picking moves by expected value against a given Elo (**maia3 opponent model + Stockfish eval**) instead of assuming perfect play.
- Across **4,120 games at 11 skill levels** (Elo 600–2600), it won faster than a same-depth Stockfish baseline at every level, with games **about 20% shorter** on average (up to 31%).

Web Development Mentor — Jan 2026 – Jun 2026
KMUTT, Intro to Database (SQLite) · Course Mentorship

- Taught relational modeling and **SQLite + Express (TypeScript) + Prisma** integration through in-class workshops.
- Mentored a **3-student team** through coursework and a **3-day hackathon**; unblocked schema design, API, and deployment issues.
- Graded **all ~60 students** at the final hackathon: team presentations with the mentor panel, plus 1:1 individual grading sessions with each student, run on my own.

Projects

Adorio Portfolio adorio.space — Next.js, Nginx, Azure, CI/CD
Portfolio and app hub (**Next.js + React**) under one domain; microservices behind Nginx. Shipped with **Docker and GitHub Actions CI/CD to Azure**; DNS/TLS via Cloudflare.

create-adorex npm scaffolding tool npmjs.com/package/create-adorex — Express, TypeScript, Prisma, SQLite
CLI starter for API-ready backends with TypeScript checks. **One command replaces 10 to 20 min of setup**; class template for ~30 to 40 students.

NFC Attendance System 2nd Place, KMUTT SIT IoT Hackathon — ESP32, Express, PostgreSQL
Built ESP32 firmware (PN532 NFC + TFT-240 touch UI) with **<1s scan time**; Express + Prisma API over HTTPS checks students in; new cards register via a **QR code** on the box or phone NFC on the site.

Smart City Financial Module Team Lead, 50+ Developer Program — Hono, Prisma, React, Pusher
Led the 3-person financial team and built the whole top-up and payment flow: **PromptPay / SCB API** integration, a Hono + Prisma backend, React transaction UI, and live status over Server-Sent Events, later **Pusher Channels**.

Achievements & Certifications

- **Microsoft Student Ambassador** (Apr 2026 – Present): share Microsoft learning resources and events through social media posts; help build the student tech community and network.
- **ISC2 Certified in Cybersecurity (CC)** (2026): entry-level cybersecurity certification from ISC2.
- **Google IT Support Professional Certificate** and more on linkedin.com/in/oakaroo