


Di Kun Ong

Frontend Software Engineer

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Education

Bachelor of Engineering @ University of Auckland

Software Engineering, First Class Honours | GPA 8.0/9

Mar 2018 — Nov 2021

Awards:

Dean's Honours List (2021, 2020)

Academic Potential Scholarship (2016)

Leadership & Awards

1st Place, EROAD "Generative AI" Hackathon

EROAD | 2023

Won by building an Azure OpenAI GPT-4 chatbot trained on company internal docs with a team of 6.

#playasateam EROAD Award – FY24Q1

EROAD | 2023

Won the quarterly employee award for demonstrating teamwork values through leading PDE cultural initiatives.

Sir Colin Maiden Scholar

UoA Dean's Leadership Programme | 2020

One of 30 people to complete a development program, selected based on leadership skills & future potential.

Video Director

Auckland Engineering Revue | 2021

Directed a cast and crew of 50 to create videos for a student-run show, including a [short film with 1.6K views](#).

Talk to me about...

Languages: TypeScript, JavaScript

Frameworks: React, React Native

Design: Storybook, Figma, CSS-in-JS, CSS Modules

Libraries: Redux, Recharts, Ant Design, React Intl

Testing: Jest, React Testing Library, Mock Service Worker

Devops: Git, AWS, Datadog, Concourse, Docker

T-shaped: Java, Spring Boot, SQL, Snowflake

Experience

EROAD

Software Engineer

Jan 2023 — Present

- Built the frontend of the MyEROAD Sustainability module which facilitates visualisation & reduction of carbon emissions from vehicle fleets, resulting in a **13,000 ton decrease** in emissions identified by **500 customers**.
 - Designed a RESTful API specification using Swagger and OpenAPI.
 - Implemented React UI components and Redux state management using TypeScript, including customised data visualisations with Recharts.
 - Wrote unit and integration tests and a mock API using React Testing Library and Mock Service Worker.
- Refactored and documented a tech debt-heavy embedded React PowerBI reports solution, **reducing LOC by 29%** and **doubling export performance**.
- **Directed the summer internship programme** for 2 consecutive years, overseeing 9-10 interns annually.
 - Successfully transitioned 3 interns from 2022-23 to full-time graduates.
 - **Secured \$189,000 in programme funding** through effective coordination of intern R&D projects, meeting strict deadlines set by Callaghan Innovation.
- Coordinated hackathon event logistics as part of the Hackathon Committee.
- Served as a 24/7 on-call engineer, triaging alerts & running incident processes.

Software Engineer Graduate

Jan 2022 — Jan 2023

- **Led implementation of a unified mobile design system** across three dev teams by rebuilding the mobile React Native Storybook, upgrading it from v5 to v6.
- Improved MyEROAD app build times by **40%** by integrating esbuild-loader into the Webpack toolchain, increasing developer productivity.
- Organised event logistics, designed the competition structure and emceed the 3-hour live presentation session for the company hackathon.
- Facilitated fortnightly sprint demo sessions, **coordinating amongst 32 teams** and addressing the entire product & engineering department.

Software Engineer Intern

Nov 2020 — Feb 2021

- Saved our largest customer **US\$110,000** in annual admin costs by streamlining their workflow through implementation of an end-to-end feature in MyEROAD. Enabled bulk closure of admin tasks with a single click by building API endpoints, database queries and frontend UI using Java, Spring Boot, PostgreSQL and React.

ecoPortal



Software Configuration Intern

Sep 2019 — Feb 2020

- Created a data pipeline connecting third-party services using AWS Lambdas written in Node.js, saving the Client Success team **hundreds of hours per year**.

Projects

Nerds Oppose Society

 nerds-oppose-society  [Figma UI](#)

v2: Mar 2023 — Present

- Actively building a v2 frontend for an online version of Cards Against Humanity.
- Designed and developed the v1 frontend for uni in May 2021, earning a **100% mark** on a team of 4.