

# RODO NGUYEN

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## SUMMARY

Software Engineer with 1+ years of experience in developing commercial applications. Proven expertise in debugging, coding, and testing complicated software. Super familiar with Agile Methodology and Software Development Life Cycle. A fast and driven learner.

## SKILLS

**Languages:** JavaScript/TypeScript, Python, SQL, C#, HTML/CSS.

**Technologies:** React, Vue, Express.js, PostgreSQL, AWS (DynamoDB, S3, EC2, Lambda, Load Balancer, etc.), Tailwind, Jest, Chai.

**Others:** Linux/Ubuntu, Git/GitHub, Docker, Data Structures and Algorithms, Test-driven development, Agile.

## EXPERIENCE

### Junior Software Engineer

April 2023 - December 2023

- **AerVision Technologies**
  - In charge of maintaining and expanding both the system's **React** front-end and **Express.js API** capability while following OpenAPI specifications to facilitate third-party integration.
  - Carried out multiple **AWS** deployments for the production API.
  - Worked together with Senior Engineers to architect the flow of information between the Express API and **React** client and to implement new features.
  - Headed up TypeScript and React **best practice** documentation to increase collaboration and maintainability in the codebases.
  - Ensured outcomes are at the highest quality, including collaborating with Quality Assurance analysts to fix bugs and implement security patches
  - Integrated Jest and Mocha testing suites for the API to prevent new changes breaking old features, and unit tested important functions and processes of the application, with a coverage goal of >90%.

### Vacation Researcher

November 2022 - February 2023

- **CSIRO-Data61**
  - Spearheaded independent research, evaluating and selecting optimal **C++ ML** libraries for an EdgeAI project.
  - Achieved an **8x** reduction in memory consumption of the ML model by applying a novel training strategy that utilizes smaller loads of training datasets, significantly improving resource efficiency without compromising accuracy.
  - Conducted a series of exhaustive tests on both Ubuntu and Raspberry Pi to ensure robust inter-device functionalities.

### Software Engineer

February 2022 - November 2022

- **S23M**
  - In this Work-Integrated-Learning job, I efficiently developed the **Front-End** with modern look for executing CRUD operations to a health database using **React and MaterialUI**, resulting in a 6-sprint being delivered in **4 sprints**.
  - Implemented many core features which handle complicated queried data (following **FHIR** standard) and display results clearly in the Front-End, further enhancing the User Experience.
  - Developed a highly-intuitive custom feature for video management software, resulting in significantly shorter reaction time for Emergency Events for a public transport client.

## PROJECTS

### CoolerSurvey

- **Customisable Survey App** | <https://github.com/rodonguyen/CoolerSurvey>
  - A full-stack app built for creating survey forms and allows **custom** survey content according to pre-defined access codes.
  - Implemented **MERN** architecture, devised suitable database schemas, created multi-step forms, and developed various API endpoints, broadening my expertise in Full-stack development, System Design, and Database Modelling.
  - Automated API testing with the Chai.

### Twitter E-nalyst

- **Sentiment Analysis for Tweet Keywords**  
| <https://github.com/rodonguyen/Twitter-E-nalyst>
  - Developed a **React** web application with a modern UI to perform keyword sentiment analysis on Twitter data (from Twitter API).
  - Implemented a **serverless** architecture using AWS services such as EC2, Load Balancer, and Auto Scaling to efficiently scale with variable usage and optimise cost.
  - Significantly improved response time by integrating in-memory caching services such as Redis, alongside persistence technologies like S3 and DynamoDB.

## EDUCATION

### Bachelor of Information Technology

Minor in Intelligent Systems

- **Queensland University of Technology**
  - 2022 • 6.4 / 7.0