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, C#, Python, SQL, HTML5/CSS.

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

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.
- Worked with Senior Engineers to architect the flow of information between the **Database**, Express.js API and React client.
- Headed up TypeScript and React **best practice** documentation to increase collaboration and maintainability in the codebases.
- Ensured outcomes were of the highest quality and collaborated with Quality Assurance analysts to fix bugs and implement security patches.
- Integrated **Jest** testing suites for the API to prevent new changes from breaking old features and core logic, reaching the coverage goal of **80%**.

Vacation Researcher
November 2022 - February 2023

CSIRO-Data61
- Spearheaded an 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 that 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 using **.NET**, resulting in a 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