RODO NGUYEN

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SUMMARY

- An engineer passionate about Blockchain, Web3 and building impactful software products.
- Possess 1+ year of real-world experience in developing high-performance and maintainable software utilising diverse technology stacks.
- A fast learner with strong programming fundamentals.

SKILLS

- **Languages:** Solidity, JavaScript/TypeScript, Python, HTML/CSS, SQL.
- **Full-stack:** React, Vue.js / Express.js, FastAPI.
- **AWS**: EC2, Redis, DynamoDB, S3, Lambda, IAM, Load Balancer, Auto Scaling.
- **Others**: Linux/Ubuntu, Git/GitHub, Docker, Test-driven development.

EXPERIENCE

Software Engineer – *AerVision Technologies*   March 2023 – Nov 2023

- Extended and maintained both backend and frontend development for AerMeal Portal **(JS, Python, AWS)**, ensuring an error-free platform while continuously implementing new features.
- Led the integration and customisation of Genetec components – a video management system – to upgrade client's operational workflow **(.NET)**.
- Conducted onsite software installations for valued clients.

Vacation Researcher – *CSIRO-Data61*   Nov 2022 – Feb 2023

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

Software Engineer – *S23M* | *GitHub*   Feb 2022 – Nov 2022

- In this Work-Integrated-Learning job, I developed the Front-End with a modern User Interface for executing CRUD operations to a health database **(React, Node.js, and Bootstrap)**.
- Developed many core features which handle complicated queried data (that follows FHIR standard) and display results clearly in the Front-End, further enhancing the User Experience.
- Demonstrated strong communication skills by working collaboratively in a team of 4 devs, and maintaining clear communication with the stakeholders / PM to ensure that the implementation is on track.

HIGHLIGHT PROJECTS

BitTracker
Python, Pandas | Time-series data, Finance | GitHub | Blog

- Developed an efficient cryptocurrency trading bot in Python, employing the SuperTrend algorithm to ensure minimal risk while achieving an annual average profit of **+110%** based to backtest results.

- Utilised **Object-Oriented Programming** principles to enhance maintainability and extensibility as additional features were integrated into the trading bot.

Twitter E-nalyst
React, Express.js, AWS, Rest API | Web App | GitHub
- 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.

CoolerSurvey
MongoDB, Express.js, React, Node.js | Web App | GitHub
- An full-stack app built for doing surveys and allows customised 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 server testing with the Chai.

EDUCATION

Queensland University of Technology (QUT)   Graduated in 2022
Bachelor of Information Technology - GPA: 6.4 / 7.0
Computer Science Major; Intelligent Systems Minor