VU KHANH VY HO

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SUMMARY

A software engineer with strong experience in software development, specializing in delivering scalable and reliable products to clients. Proficient in JavaScript, Python, and front-end technologies such as HTML and CSS. Adept at communicating effectively with cross-functional teams and collaborating across disciplines to deliver value through Agile practices. Driven by a passion for building applications that provide real impact to users and streamline manual workflows across teams and stakeholders.

EXPERIENCE

The University of Queensland, Australia

Academic Tutor   *Feb 2024 - Present*

Tutoring two software engineering courses CSSE3012 and CSSE6400, **leading four practical classes** and **two contacts session** in Semester 1, 2025.

- **CSSE6400:** Guided students how to implement **RESTful APIs** and **develop reliable, scalable, and maintainable applications** using **architectural patterns** and the **Flask framework**. Worked with **PostgreSQL** for database management. Packaged components into **Docker containers** and deployed them on **AWS** using **Terraform**. Implement **100 test** to verify the API endpoints.
- **CSSE3012:** Taught the significance of the **software development process**, **effective organization** of development activities, and the critical role of **requirements engineering** in project success.

Research Assistant   *Feb 2024-Nov 2024*

- Conducted research on leveraging AI to optimize bidding strategies in the energy sector, achieving over **80% accuracy** and helping solar generators **mitigate 5% risks** during negative pricing phases.
- Built predictive models using **Python and LSTM networks** to forecast energy prices, with a focus on the Queensland region.
- Integrated the MODBUS protocol to enable seamless interaction between predictive models and solar panel control systems, **enhancing 10% operational efficiency**.

Aubot Pty Ltd, Melbourne   *Jun 2023 - Mar 2024*

Software Engineer Intern

- Developed a **user-friendly educational platform** for teaching programming to high school students, significantly improving user engagement and performance across **8 Australian schools**.
- Contributed to **Agile workflows**, leading **code reviews**, and ensuring code quality through **unit tests** and **CI/CD pipelines** for 10,000+ **Java** and **Python** exercises focused on **advanced algorithms**.
- Designed and implemented **front-end interfaces** for content presentation, ensuring an intuitive user experience.
- Conducted **UAT testing** to improve **UI/UX design** that increased 20% user engagement.

PROJECTS

COUGHOVERFLOW   **March 2025 – Present**

- Implemented about **100 Pytest** unit tests for auto-grading CSSE6400 assignments using **GitHub Actions**.
- Focused on verifying API functionality, performance, and reliability, achieving **96%** coverage.

STORYPATH   **Sep 2024 – Nov 2024**

- Developed and deployed a **full-stack** location experience platform using **JavaScript**, leveraging **Node.js** for back-end and a front end built using **React** and **Vite** for fast development and optimized builds.
- The platform features a **React Web** app for authoring experiences, allowing users to design and manage location-driven narratives, and a **React Native Player** for deploying these experiences on mobile devices via **Expo Go**.
- Wrote unit tests with Jest achieving 85%

RIDINGSHARE   **Aug 2023 - Sep 2023**

- Developed a **web-based ride-sharing platform** with a **custom API** using **Python** for **back-end** and a **user-friendly interface** crafted with **HTML, CSS and Yarn**, enabling passengers to request rides and share trips with others traveling in similar directions.
- Deployed on **AWS** using **Terraform** and **Docker**, hosted on **EC2** instances to ensure scalability and reliability through **K6 auto-scaling** while providing **public access** to users.

EDUCATION

The University of Queensland, Australia.	**Jul 2022 - Dec 2024**

Bachelor of Engineering (Honours) — Software Engineering.
- UQ Global Connect Scholarship
- Second Class Honours (Division A)

Ho Chi Minh University of Technology, Vietnam.	**Sep 2020 - Jun 2022**

- OISP Scholarship for Academic Excellence

TECHNICAL SKILLS

Frontend Developments	React, JavaScript, HTML5, CSS3, React Native
Cloud Technologies	AWS (EC2, Lambda, CloudWatch), Docker, Terraform.
Version Control	Git, GitHub.
Testing	Pytest, Jest, Cypress
Development practices	Agile methodologies, Test-driven development (TDD), Continuous Integration/Continuous Deployment (CI/CD)
Languages	English, Vietnamese, Chinese.

REFEREES

Available on request