

HO VU KHANH VY

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EXPERIENCE

Casual Academic Tutor

The University of Queensland, Australia

Feb 2025 - Present

Tutoring two software engineering courses CSSE3012 and CSSE6400, **leading four practical classes** and **two contacts session** in Semester 1, 2025. Support course coordinator delivery classes' materials and marking assignments.

- **CSSE6400:** Taught students how to implement **RESTful APIs** and **develop reliable, scalable, and maintainable applications** using **architectural patterns** and the **Flask framework**. Packaged components into **Docker containers** and deployed them on **AWS** using **Terraform**.
- **CSSE3012:** Taught the significance of the **software development process**, **effective organization** of development activities, and the critical role of **requirements engineering** in project success.

Software Engineer Intern

Aubot Pty Ltd, Melbourne.

Jun 2023 - Mar 2024

Developed an **educational platform** to teach high school students programming and foundational concepts, later adopted by **8 Australian elementary schools**, impacting **thousands of students**.

- Authored and **debugged** for 10,000+ **Java** and **Python** exercises, adhering to **Agile development practice**.
- Designed and implemented **front-end interfaces** for content presentation, ensuring an intuitive user experience.
- Conducted **UAT testing** to improve **UI/UX design** and enhance platform functionality and usability.

PROJECTS

STORYPATH

Sep 2024 – Nov 2024

- Developed and deployed a **full-stack** location experience platform using **JavaScript**, leveraging **Node.js** for back-end development and **React** for the front-end.
- 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**.

Github-link for web & app: [StoryPathWeb](#) & [Storypath](#)

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.

Github-link: <https://github.com/CSSE6400/P01-RidingShare>

TECHNICAL SKILLS

Programming Languages

Python, Java, HTML/CSS, JavaScript, SQL, C++, PHP, Bash.

Cloud Technologies

AWS (EC2, ECS, Lambda, CloudWatch, SQS, etc), GCP.

Tool

React, CodeIgniter4, Docker, Git, Jupyter Notebook.

Skills

Web & Application Development, Data Analysis, Documentation.

Languages

English, Vietnamese, Chinese.

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

REFEREES

Marita Cheng - Founder of Aubot Pty Ltd

[Reference letter](#) ◇ Email: me@maritacheng.com