

Van Nguyen | Master of Computer Science | Software Engineer | AWS Certified

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SUMMARY

Software Engineer experienced in scalable backend systems, event-driven architecture, cloud infrastructure, and systems integration. Skilled in Node.js, Go, AWS, microservices, and RESTful APIs, with experience building reliable applications across fintech and real-time event platforms. AWS Certified Solutions Architect – Associate.

SKILLS

- **Programming Languages:** JavaScript (Node.js), TypeScript, Go, Python.
- **Backend Engineering:** RESTful APIs, event-driven architecture, microservices, WebSocket (real-time systems)
- **Asynchronous & Messaging:** RabbitMQ
- **Databases & Caching:** MySQL, Redis
- **Cloud & DevOps:** Azure, AWS (EC2, S3, CloudFront, RDS, VPC, CloudWatch), Docker, Terraform, CI/CD
- **Testing:** Unit and integration testing (Mocha, Chai)
- **Version control & Workflow:** Git, code reviews, Agile development

WORK EXPERIENCE

- ❖ **Academic Tutor/Lab Demonstrator | University of Wollongong, Australia** Mar 2025 – Now
 - Deliver weekly lab sessions for 2 subjects: Python Programming and Web Development.
 - Provide 1:1 support, improve students' understanding, fostering problem-solving independent learning.
 - Mark assignments and exams, delivering consistent and constructive feedback.
- ❖ **Software Engineer, Backend | Pigeonlab Pte Ltd, Singapore** Aug 2021 – Jul 2023
 - Event-organising platform, enabling audience interactions for large events, meetings, and webinars.*
 - Tech focus: NodeJS, Go, MySQL, Redis, RabbitMQ, WebSocket, Docker, Chai, Mocha**
 - Designed, developed RESTful APIs and backend services supporting high-concurrency event interactions.
 - Transformed a monolithic NodeJS backend into a scalable event-driven microservices architecture.
 - Implemented real-time communication features using WebSocket, enabling live audience interactions.
 - Conducted database migrations, designed new data models, and optimised SQL queries for performance.
 - Worked in an Agile team, participated in software design, architecture, deployment and code reviews.
- ❖ **Full-stack Developer | Fetch Technology (Client: Tokenize Exchange, Singapore)** Oct 2018 – Jun 2021
 - Cryptocurrency exchange platform in Singapore & Malaysia.*
 - Tech focus: NodeJS, Angular, Express, TypeScript, WebSocket, Redis, AWS, MySQL**
 - Developed full-stack features for a live cryptocurrency exchange serving users in Singapore and Malaysia.
 - Built Crypto Earn system, enabling automated asset deposits and interest calculation logic at scale.
 - Implemented multi-level referral system, driving commission-based customer acquisition and retention.

EDUCATION

- ❖ **Master of Computer Science | University of Wollongong, Australia** July 2024 - Jun 2026
 - Majors: Cyber Security; Machine Learning and Big Data
 - Awarded EIS Summer Scholarship, implemented services for age care sector on **Azure** with **Terraform**
- ❖ **The Degree of Engineer in Software Engineering | FPT University, Vietnam**
 - GPA: 8.0/10, twice awarded Semester's Excellent Student Award (top 3% of students)

CERTIFICATIONS

- ❖ AWS Certified Solutions Architect – Associate [\[Certificate\]](#)

REFERENCES

Provided upon request