

ETHAN NGUYEN

nxhieuqn@gmail.com

+61426557238

<https://github.com/nxhieu>

<https://www.linkedin.com/in/nxhieu/>

ABOUT ME

Technical skills: JavaScript (Node, Angular) | Typescript | Java | Unix/Linux | SQL | AWS (SQS, Lambda, EC2, ECS, Load balancer, RDS).

EXPERIENCE

Full stack software engineer **IMS Exchange Pty Ltd, Australia** March 2021 – present

Firefly platform

- Designed and implemented the backend services, focusing on performance optimization and scalability.
- Developed the mobile application using Flutter, ensuring a seamless and responsive user experience across various devices.
- Managed the backend service pipeline, utilised AWS ECS, AWS CodeCommit, and AWS CodePipeline to ensure efficient and reliable deployment processes.
- Implement AI text search using ChatGPT embeddings and vector comparisons to recommend and search for items.
- Optimised backend performance, resulting in improved application responsiveness and reduced load times.

Digicuris messaging platform

- Developed a message delivery service that sends SMS and emails at scale using AWS SQS and AWS Lambda, processing 60,000 messages per day.

Breze payment platform

- Designed and developed an invoice application that processes millions of dollars daily using Node.js, Angular, and MySQL.
- Performed database performance tuning by creating indexes and optimising MySQL queries, reducing API latency.
- Reduced the time to process bulk transactions by 50% and decreased the invoice page load time from 7 seconds to 2 seconds.

Propster real estate platform

- Led development of a web app automating real estate workflows using Node.js, Angular, Docker, and AWS ECS. Managed infrastructure, deployment pipelines, and cloud monitoring.

Software engineer intern **Upstreet, Australia** February 2020 – March 2020

- Implement real-time share price update by integrating with third party api.
- Write unit tests to improve reusability and extensibility of the codebase.

External auditor (core assurance team) **Ernst & Young, Vietnam** October 2018 – February 2019

- Delivered accounting assurance services and assisted in preparing audited financial statements.

EDUCATION AND ACHIEVEMENTS

Bachelor of Science in Information Technology (Enterprise Software development) and Bachelor of Business - Finance (University of Technology, Sydney) February 2017 – August 2020

- Graduated with Distinction

Accounting Discipline High Achiever Award (Top 1%) August 2018

PERSONAL PROJECTS

Pathfinding Algorithm Visualisation January 2020

- Visualise popular graph traversal algorithms on the browser, such as: Depth-first search, Breadth-first search, Dijkstra, A* (JavaScript, Css3, React, Webpack).