Michael
Au-Duong

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BACKEND ENGINEER

Details

Melbourne, Australia

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michael.auduong7@gmail.com

LinkedIn

linkedin.com/in/mauduong

GitHub

github.com/mauduong

Skills

Backend Engineering

Database development and design

Infrastructure as Code

CI/CD

Serverless

Unit Testing

Collaboration and Teamwork

Documentation

TypeScript

Node.js

SQL

Hobbies

Video Games

Building Custom PCs and Keyboards

Snowboarding

Hiking

Road Trips

Languages

English

Cantonese

Employment History

Backend Engineer at Roam Digital, Auckland

APRIL 2020 — APRIL 2023

I worked on New Zealand's first peer-to-peer payments app incorporating seamless payments between New Zealand bank accounts, an end-to-end solution for an Australian Solar Panel wholesaler and contributed to a widely used internal Infrastructure as Code framework.

- Launched New Zealand's first peer-to-peer payments app to friends and family handling 1000 concurrent users using **AWS ECS, Azure DevOps Pipeline, Typescript, NestJS, PostgreSQL,** and **DynamoDB**
- SQL Query optimisations on existing products improving retrieval performance by 30%
- Co-developed an internal IaC framework with 4 developers using **AWS CDK**, **AWS Lambda**, **Azure DevOps Pipeline**, **TypeScript**, **PostgreSQL**, **AWS SQS,** and **AWS DynamoDB** to vastly speed up initial development speed on new client projects
- Created a reusable SOAP to **REST API** conversion to fully replace a client's SOAP workflow improving overhead costs and developer training
- Maintenance and monitoring on existing products
- Peer programming with Architects, Senior and Junior developers
- Produce easy to follow documentation for projects with minimal to no documentation
- **GIT** version control for various clients and internal projects

Analyst Programmer at Agility CIS, Auckland

SEPTEMBER 2018 — APRIL 2020

During my first assignment I dealt with strict compliance requirements for the Australian utility industry in a tight-knit team, for my second assignment I worked with New Zealand clients to help bring usability and crucial functionality to the existing product.

- Full stack development of strict AU and NZ compliance requirements using **C#, .NET**, Sybase PowerBuilder, and Microsoft Silverlight
- Developed complex Stored Procedures, Functions and CTEs in **T-SQL**
- Financial Business reporting with Microsoft SSRS
- Consolidated data from millions of database records with Microsoft SSIS
- **SVN** version control to coordinate efforts among developers and QA

Education

B.Sc Computer Science, University of Auckland, Auckland

FEBRUARY 2015 — JANUARY 2018

- Certificate for top performing students in LANs, WANs and Wireless Infrastructure
- Certificate for top performing students in Database Systems

Certifications

AWS Certified Developer – Associate Certification

AUGUST 2022

AWS Certified Cloud Practitioner Certification

JUNE 2021

Featured Projects

Buck
New Zealand's first peer-to-peer payments app
- Built and implemented New Zealand's Anti-Money Laundering compliance while managing client expectations as well as data protection and privacy
- Resolved a time-critical bug that caused the messaging feature to process for 10 seconds to now instant messaging
- Working in a tight-knit team to handle rapid client feedback
- Key responsibilities included handling of confidential material, implementing new features and client communications

UPowr
Australia-based clean energy jump-starter
- https://upowr.com/
- Improved upon existing geo-image processing system to speed up installation of virtual solar panels by 80% due to looped promises
- Implemented new solar compliance certifications for onboarding new enterprise partners
- Created compliance forms in Vue.js
- Key responsibilities included being the sole backend developer implementing Australian solar compliances, client communications, and supporting a Junior frontend developer from Roam

Smartpay
New Zealand's largest EFTPOS provider
- Create and implement a brand new AWS IoT framework and fully serverless
- Full creation of the database and tables and design improvements to significantly reduce unnecessary database I/O
- Key responsibilities included working tightly with the clients' Tech Leads and Architects to deliver a fast moving deadline and supporting two new Junior backend developers from Roam