Solomon Kwan

Brisbane, QLD

 SolomonKwan

EDUCATION

University of Queensland, St Lucia June 2018 – Dec 2021

Bachelor of Mathematics/Bachelor of Computer Science

- Dean's Commendation for Academic Excellence, Semester 1 2020
- Switched degrees from BMath/BSc (Feb 2017 - June 2018)

WORK EXPERIENCE

ATO - Graduate Aug 2023 – Present

- Worked in the Enterprise Data Services team assisting with creating AWS systems.
- Created Lambda services for processing JSON data.
- Updated DynamoDB tables to store data which was then retrieved by Lambda services.
- Storage using Glue for efficient ETL processes.
- Interfaced with S3 buckets to save and retrieve data for processing and queried said data using Athena.
- Created queue services using SQS for batch processing.
- Created CloudFormation files for new services and processes.
- I also had some other experience in IAM roles and StepFunctions.
- My role also included some exposure to TeraData and I used Git and TFS/Azure DevOps very frequently.
- I assisted with maintaining, investigating, and coming up with solutions to bugs that arose in production. This also included analysis, testing, and documentation.
- Assisted with optimisation of AWS application infrastructure.
- I liaised and communicated with my team for knowledge transfer, team building, and to ensure that all standard procedures where followed in the software development lifecycle.

Employment Gap Oct 2022 – Aug 2023

- Was part of a company-wide redundancy in my previous role.
- Looked for roles in the financial tech industry specifically.

WorkingMouse - Software Developer Jan 2022 – Oct 2022

- Worked in a team of 6 in conjunction with the Department of Defence to develop their web applications.
- Constant communication with clients to identify needs, requirements and develop acceptance criteria.
- Frontend development in React and Vue and backend development in Java (Spring).
- Creating tests and scenarios for new features or bugs that have been fixed.
- Assisting with database management, debugging, maintenance and updates.
- Assisting Support staff and other juniors with learning and on-boarding.
- Code reviews and periodic testing (smoke tests and Jenkins testing).
- Tech spikes and scoping tickets and features.

WorkingMouse/Rogue Two - Support Engineer Jun 2020 – Dec 2021

- Working as casual support staff during university studies.
- Customer support, aiding in maintaining and upgrading web products.
- Development with JavaScript, React/React Native (TypeScript), SQL, C# and PHP.
- Constant communication with customers to understand needs and develop solutions.
- Delivery of beta software, UAT, and assistance with production releases.

UQ IdeaHub March 2020 – April 2020 (six-week course)

- Attended talks from entrepreneurs.
- Participated in spontaneous teamwork building exercises.
- Sharing and contributing to an open-discussion for developing ideas.

ATO - Cadetship Jun 2019 – Jun 2020

- Helped with the understanding, communication and explanation of data insight needs.
- Assisted in development of data insight tools for behaviour analysis.
- Highly autonomous and self-driven work due to the new nature of the work conducted.
- Worked both autonomously and in team-oriented work to understand requirements.
- Work halted due to the pandemic and was transferred to ATO call-centre to assist with influx of pandemic related calls.

TECHNICAL SKILLS

Languages: Python (AWS, TensorFlow, SciPy, NumPy & Gurobi), C++, Java, JavaScript, SQL, Bash
Technologies: Visual Studio, Linux, Git, React (TypeScript), React Native, Vue, MSSQL, Teradata, MySQL, Postgres, GDB, Valgrind

I have used C++ in a project of mine (Chess AI) which has taught me the basics of the language but also more complex areas such as templates, intrinsic functions, CPU architectures and threading. Python is a language I have used for a number of university courses, and I have also utilised it in personal projects as well. Through a university course, I have learnt to create mathematical models of linear optimisation problems and using Gurobi to solve them. I have also utilised the TensorFlow library to create an image segmentation AI (U-Net) for brain MRI images, as well as basic neural network classifiers for datasets such as number classification and CIFAR-10 datasets. Similarly for Java, I have used the language in a number of university courses and also in my previous workplace (WorkingMouse) as the main language for backend server development. JavaScript, SQL and Bash are languages that I have had minor exposure to at university, but came to be a lot more familiar with at WorkingMouse. I am also proficient with the use of Git version control and its conventions.

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Operations Research
- Computer Systems
- Principles & Programming
- Artificial Intelligence
- Machine Learning
- Computer Networks
- Pattern Recognition & Analysis
- Mathematical statistics
- Advanced Calculus & Linear Algebra
- Mathematical Analysis & Advanced. Topics

EXTRACURRICULAR

UQ Chess/Go Club   2018 – Dec 2021
- A place to socialise, learn and exchange ideas. Learnt the board game of Go through other members.

Chess AI Project   2019
- My first exposure to C++.
- I mainly used this project as a way to learn the language and implement some algorithms I had learnt at university.

Stock Data Scraping Program   2020
- A scraper I programmed to retrieve all trading data of an ASX stock for the day.
- I programmed it for fun and to use some knowledge I learnt at work.

Chess Analysis GUI   2021
- A React-based Chess GUI analysis tools that I worked on briefly.
- I started the project to apply my work skills in an activity and way that I enjoy.

Personal Website
- www.solomonkwan.com
- A React-based static website.
- Deployed using AWS Amplify.