

35/158 George Street
Queens Park 6107 WA

SAMUEL JOHN
Australian Permanent Resident

0426 579 662
samuelomamalin@gmail.com

SUMMARY

- I am a software engineer/developer with less than a year's experience, but have been coding for 3 years, including exposure to C#, Java, SQL Server, ReactJs, JavaScript, HTML, CSS and Python. As I was working, I have found my sweet spot, which is where I am looking to build my career, in the software development sector.
- My personal development projects include face recognition web app that uses React for its frontend and Node for its backend, a blog web app that uses EJS for its frontend and Node for its backend, and a Dating web app that was built using .Net Core and Angular V6 (separately), deployed on Azure (free package).

SKILLS

- (proficient): Android Studio Java, JavaScript, Python, C#, .Net Core, NodeJs, ReactJs, MSSQL, VB6, Jupyter, NumPy, Pandas
- (familiar): R-studio, MATLAB, PostgreSQL, MySQL, Go, MongoDB, MVC, REST API, Machine Learning

EMPLOYMENT

Software Engineer

Xlead Sdn Bhd

Apr 2019 – Dec 2019

Small IT Company that produces customized solutions to clients, with utility billing applications as its core product, making itself a niche ICT company. (www.xlead.com.my/)

- Leveraged knowledge in Java with Android Studio, VB6, Visual Studio, kSOAP, MSSQL, MVC, IIS.
- In a team responsible for the maintenance and upgrades of water billing software systems by resolving clients' queries. I am also responsible for upgrading and redesigning older Android applications, ensuring backwards compatibility.
- **Achievements:** Reduced Android device's time to render the book's top 20 account list from $O(n^2)$ to $O(n \log n)$ by applying quick sort algorithm. I have also improved the Android device's battery lifespan by 10% by modifying the logic of obtaining the device's physical location with one click update.
- Interesting challenges: Understanding the system's pipeline and responding to clients' needs with optimum solutions, ensuring new features added are modularized, encapsulation of new classes

Associate Lecturer

Sunway University

Sep 2017 – Dec 2018

- Leveraged knowledge in C, Python, Java, Tobii Eye Tracker, NLP.
- Courses: Programming Principles (C, Python), Artificial Intelligence, Human Computer Interaction (HCI)
- Responsible for preparing teaching materials, assignments, and conducting tests for tutorial classes and lab sessions, as well as the Q&A sessions for students.
- **Achievements:** Led the Malaysian team in the World Robot Olympiad (WRO) 2018 for the Advanced Robotics Challenge (ARC) category.
- Interesting challenges: Communicating ideas and teachings to students of diverse backgrounds and different levels of background knowledge, accounting for learning and achievement gaps and improvising.

Research Assistant

Sunway University

Jul 2016–Dec 2018

- Leveraged knowledge in MATLAB, Python, NumPy, Deep Learning Algorithms, Maya, Kinect, Arduino.
- Research topic: Robot learning human movements and actions by 'watching' videos, Proprioceptive Model and Algorithm for Real-Time Responding Tele-Haptic to Counter Lack of Visual Aid in Multi-Robots 3D Environment
- Responsible for project planning, task delegation, Gantt chart, setting up research environment, research, and documentation. Produced a deep learning algorithm that learns complex human motions trained using large motion capture dataset.
- **Achievements:** 2nd place, National Advanced Robotic Challenge (NARC) 2018, Malaysia, Deformation and Friction: 3D Haptic Asset Enhancement in e-Commerce for the Visually Impaired. Conference paper publication, AsiaHaptics 2018

- Interesting challenges: Integration of multiple environments, data preprocessing and augmentation, deep learning model ensemble, code optimization for faster computation.

CEO Office Analyst **Air Asia X Berhad** **Nov 2015–Jun 2016**

- Identified and articulate key risk areas within operations & finance as well as design compensating controls.

EDUCATION

Perth, Australia **Curtin University of Technology** **Jul 2010 – Jun 2014**

- B.S.E. in Electrical Power Engineering (Honors). CGPA: 3.68
- Programming Coursework: Computer Vision, Embedded Systems, Signal Processing

Selangor, Malaysia **Sunway University** **Aug 2018 – Aug 2020**

- Masters by Research in Computer Science.
- Research topic: Time Series Forecasting: Traditional Time Series Methods versus Machine Learning Models
- Leveraged knowledge in MATLAB, Python, R.

Selangor, Malaysia **Self-Development Courses** **Jan 2019 – Current**

- Self-development Coursework: The Web Developer Bootcamp by Colt Steele Udemy, The Complete Web Developer Udemy, Algorithmic Trading & Quantitative Analysis Using Python Udemy, Python for Financial Analysis and Algorithmic Trading Udemy, Data Structures and Algorithms.

SOFTWARE PROJECTS

Personal Website: https://sjodcre.github.io/oma_web/ (for additional information and projects)

Automated Trading System Python (Ongoing)

- Utilized: Python, JSON, Jupyter, NumPy, pandas, matplotlib, FXCM, OANDA, BeautifulSoup.
- Advancement of quantitative analysis of financial data using Python. Exposure to the Py-Finance Ecosystem.
- Implemented data extraction, web scraping, technical indicators, sentiment analysis, value investing, performance measurement, back testing, API integration and API trading.

Face Recognition Web App

- Utilized: ReactJs, Clarifai, ExpressJs, Knex, Bcrypt, PostgreSQL, Git.
- Developed a web application with ReactJs and NodeJs that allows users to upload images for facial recognition.
- Integrated a third-party API (Clarifai) that does simple machine learning algorithms.

Dating Web App

- Utilized: Angular 6, .NET Core, TypeScript, Angular forms, Azure, SQLServer, JWT Tokens.
- Developed a web application with Angular 6 with ASP.net Core that allows users to like and chat with others.
- Implemented drag and drop photo uploads and saving to a cloud platform (Cloudinary).
- Implemented filtering, sorting and paging of data, persisting data with Entity Framework Core.

Campground Blog Web App

- Utilized: EJS, REST API, PassportJs, MongoDB, NodeJs, Git.
- Developed a web application with EJS and NodeJs that allows users to post campgrounds information.