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**SAMUEL JOHN**  
Australian Permanent Resident

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## 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/](http://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

