Suther David Samuel

+65 9235 5371 | suther.david.samuel@gmail.com | https://github.com/samuel787
https://www.linkedin.com/in/samuel-suther-david/

EDUCATION

National University of Singapore (NUS)   **Aug 2018 – May 2022**
BEng, Computer Engineering (Honours)
- *Academic*: CGPA: 4.53/5.0
- *Relevant coursework*: Software Engineering, Database Systems, Real-Time Operating Systems, Digital Design

Anglo-Chinese Junior College   **Jan 2014 – Dec 2015**
- *Academic*: 78.5/90 rank points for GCE A-level Examination
- *Course of study*: Studied Physics, Chemistry, Mathematics, Economics

WORK EXPERIENCE

Private Tutor   **May 2018 – Present**
- Improved 10 students' upper Secondary Math and Science academic results
- Cultivated students' interest in learning and designed higher order thinking questions to challenge them

Zenitant, *Assistant Robotics Trainer*   **Feb 2018 – May 2018**
- Conducted Arduino and Micro:bit workshops for Secondary School students as enrichment classes
- Nurtured students' interests in programming by guiding them in debugging their own code

Singapore Armed Forces, 3rd Army Maintenance Base, *Supply Specialist*   **Mar 2017 – Feb 2018**
- Trained and led more than 20 supply assistance to ensure smooth logistics flow for various conducts
- Prepared unit for annual commercial stock takes and logistics audits

ACHIEVEMENTS AND AWARDS

Emerged Top 6 for NUS IEEE Hackathon   **Mar 2020**
- Developed an image classifier to identify different materials as a proof-of-concept to reduce contamination in recycled waste

Apollo 11 (Advanced) Level of Achievement for NUS Computing Orbital Programme   **Sept 2019**
- Independent Software Development Project received Apollo 11 Award and nominated for Judges' Choice Award

ACJC Hackathon 2014   **Aug 2014**
- Emerged as winner for ACJC Hackathon 2014 for the Student Team Category

PROJECTS

Carpool Web Application   **Sept 2019 – Nov 2019**
- Led 3 other members to develop mock carpooling application using Node.js and PostgreSQL
- Designed ER-diagrams to implement a relational database design for the backend

Ducats – A Music Education App   **Aug 2019 – Nov 2019**
- Developed Java Command Line application on GitHub that teaches sheet music
- Brainstormed user stories, use cases and coded application in accordance to Software Engineering Principles & Design Patterns

Parkevelution – Android Application for NUS Orbital 2019   **May 2019 – Aug 2019**
- Developed an android app using Android Studio that displays real time parking data to enhance drivers' parking experience
- Utilized Google Maps API, Data.gov.sg for directions, price and real-time lot availability with Singapore island-wide coverage
- Implemented database on remote Raspberry Pi to store and predict future lot availability

Sound Visualizer and Mini-Game on Basys3   **Mar 2019 – Apr 2019**
- Programmed 10 different ways to visualize sound on a Basys3 with microphone and VGA output using Verilog in Vivado
- Developed a mini 2D space shooter game played with sound inputs

Alex – A Remotely Operated Search and Rescue Robot   **Feb 2019 – Apr 2019**
- Built robot with Arduino, Raspberry Pi and peripheral IR, color sensors, RPLiDAR, motors with 4 other members
- Ensured that the robot is able to navigate through a maze remotely using MATLAB to identify different colored objects

SKILLS AND INTERESTS

- *Languages*: Fluent in English and Tamil
- *Programming Language*: C/C++, Java, Python, JavaScript, PHP, Verilog
- *Web Development*: HTML/CSS, Node.js, Express.js, Bootstrap, React.js
- *Database*: PostgreSQL, Firebase
- *Hardware*: Arduino, Basys3, Raspberry Pi
- *Other IT skills*: Adobe Photoshop, Adobe Premiere Pro, Adobe After Effects, MS Office