

IRA SYAMIRA SUKIMIN

Product Development Engineer

irasyamira.com

irasyamira.min@gmail.com | Availability: April 2022

Professional Summary

A junior engineer seeking opportunities in software and web development. Fluent in Python, Java, C and Verilog/VHDL. Strong in scripting and automation. Experienced with both front-end and back-end programming including and not limited to MySQL database handling. Possess good documenting, report-writing and presentation skills. Highly focused and motivated, work excellent both individually and in groups, open to learning new programming languages, tools and to adopt new skills.

Professional Experience

Intel PSG - Product Development Engineer

- Automate and enhance production screening test content for Intel FPGAs using tcl scripting and Quartus II software.
- Support debug and fault isolation for customer returns using ATE tester.

Awan Technology - Digital Solutions Developer (Intern)

- Conduct sprints for numerous large-scale projects alongside stakeholders and project managers.
- Develop low/high fidelity sketches and perform wireframing for mobile and web applications.

Education

University of Auckland, New Zealand (2015-2019)

- Computer Systems Engineering – 2nd Class Honors (Upper Division)

Kolej Mara Banting, Malaysia (2012-2014)

- International Baccalaureate Diploma – 35 points

Sekolah Seri Puteri, Cyberjaya, Malaysia (2007-2011)

- Sijil Pelajaran Malaysia (SPM) – 4A+ 5A

Language Proficiency

Malay

English

Skills/Expertise

Python

HTML/CSS/JS

Java/C/C++

Verilog/VHDL

Machine/Deep Learning

Version Control (i.e., Git)

Projects (*project repository available on github.com/irasyamira)

► Web/Software Development

(2021) Personal Website* – irasyamira.com

A blog-type website built using Flask framework running on Python as the back-end and HTML/CSS/Javascript for the front-end. Features a virtual guestbook and blog entries which uses MySQL database for storage, interfaced via Python.

(2017) P2P Web Application

A peer-to-peer (p2p) messaging web application using CherryPy framework running on Python. Allows users within the same LAN to send messages and files to each other through the implemented networking protocol.

► Artificial Intelligence/Deep Learning

(2019) Traffic Violation Detection System*

A smart traffic violation detection system that detects whether a vehicle is present within the yellow box of an intersection and then determines the type of violation using a trained Convolutional Neural Network (CNN). Implemented using an UP2 board and an Intel Movidius stick.

(2018) Smartfashion - Android Mobile Application*

An automated clothing search tool. Provides user with visually similar (color, clothing-type and material) clothing options at different price points on Amazon through the processing of a single image, either captured or uploaded from the gallery by the user. The backend Python program is hosted in the cloud and interacts with a Java front-end.

► Hardware

(2018) Parallelization of big data statistical calculation*

Speeds up processing by factor of three in comparison to CPU by using the NVIDIA GeForce GPU and OpenCL.

(2017) Maze-solving robot

A robot powered by Cypress PSoC5 able to traverse a pre-defined maze using breadth-first search (BFS), depth-first search (DFS) and A-star algorithms. Decisions are made via input from light sensing circuits.

Activities/Achievements

- Intel Bring-Your-Kids-To-Work Day (August 2019) – Volunteer as an organizing committee and successfully conducted event.
- Intel-Industry Challenge (September 2019) – Led a team of three and qualified for finals with Automated Traffic Violation Detection System.

References – Leong, Lai Chen (Manager) lai.chen.leong@intel.com | Mani, Ajai (Manager) ajai.mani@intel.com