

# IRA SYAMIRA SUKIMIN

Product Development Engineer

[irasyamira.com](http://irasyamira.com)

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## 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](https://github.com/irasyamira))

### ► Web/Software Development

(2021) Personal Website\* – [irasyamira.com](http://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](mailto:lai.chen.leong@intel.com) | Mani, Ajai (Manager) [ajai.mani@intel.com](mailto:ajai.mani@intel.com)