SEONG-JUNE HER

COMPUTER SYSTEMS ENGINEER

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ABOUT ME

I am a Computer Systems Engineering student looking for a **full-time summer internship** to learn new skills as well as getting valuable experience in the industry.

I am an avid software developer who has a strong passion for **embedded systems, software developement** and **machine learning**. In my free time, I enjoy participating in hackathons and personal projects.

EDUCATION

Currently Studying: Bachelor of Computer Systems Engineering (Hons) at
The University of Auckland
July 2018 - Novemeber 2021

NOTABLE PAPERS

- **COMPSYS302**: 'Design: Software Practice. Machine Learning' - **Grade A+**
- **COMPSYS305**: 'Digital Systems Design' - **Grade A+**

TECHNICAL SKILLS

- C/C++
- Python
- Java
- MATLAB
- VHDL
- CSS/HTML
- Javascript
- React
- Android Studios
- Git/Github

LEADERSHIP

- Lead several group projects for electrical and computer systems courses in University.
- Co-Lead my team to 2nd place for the 2019 IoT and AR Hackthon in Auckland.
- Member of Niesh's ON INDUSTRY entrepreneurs group.

PAST WORK EXPERIENCE

PRIVATE TUTOR

`Self-Employed | NCEA | November 2018 – present`

Tutored a number of highschool students in the Epsom ad Auckland CBD regions. Taught a range of NCEA science and mathematics subjects from level 1, 2, and 3.

SOFTWARE ENGINEERING INTERN

`Ambit | Software Company| November 2020 – Feb 2020`

Developed an AI-Powered Digital Salesperson for e-commerce websites using Ambit's AI platform. Worked in an agile development team of 6 interns and showcased our final product to Ambit's shareholders. Developed solutions and features using node.js, and also worked on integrating Ambit's chatbot widget into front-end environments.

NOTABLE PROJECTS

MACHINE LEARNING - PNEUMONIA SYMPTOMS DETECTOR

`Python | Pytorch | Cuda | Machine Learning | Image Processing`

- Deveoped famous convoutional Neural Networks from scratch including AlexNET, LeNET, and VGG-16 using Pytorch.
- Utilized machine learning and algorithmic image processing to identify symptoms of pneumonia within x-rays images of lungs.
- Was able to detect pneumonia symptoms with an accuracy of 82%.

WEB-BASED DICE GAME APPLICATION

`Javascript | CSS | HTML`

- Developed a two-player dice game inspired by the "Greedy Pigs" game from the Javascript course in Udemy,
- Developed a button and randomized dice function utilizing Javascript.
- Created a user-intuitive interface using CSS integrated with Javascript

LOCAL RESTAURANT FINDER

`Javascript | CSS | HTML | React`

- Developed and deployed a local restaurant finding web application based on specified location, utilizing the Zenbu API.
- Worked in an agile development team of front-end, back-end engineers and UX/UI designer to build an intuitive and minimalist client-side, using MERN stack.

MULTI-PROCESSOR DIGITAL DESIGN

`VHDL | C | Hardware Design | DE0`

- Currently developing as a team of 3 students utilizing advanced design concepts based on the ISA architecture of the RISC V.
- Designed and developed a functioning system for a Heterogenous Multiprocessor System on Chip (HMPSoC) for the DE0 development kit using VHDL.
- Created various digital signal filter ASPs which are able to manipulate direct audio signals in real-time.