

KEN JEN LEE

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EDUCATION

University of Waterloo

September 2016 - April 2021

Candidate for B.ASc. in Honours Computer Engineering, Artificial Intelligence Option, Co-op GPA 91.44%

Related Courses: [CS 480] Introduction to Machine Learning [ECE 455] Embedded Software

TECHNICAL SKILLS

Languages

Python, C/C++, JavaScript, MySQL, VHDL, Assembly

Tools/Libraries

PySpark, pandas, scikit-learn, Tensorflow, Django, MongoDB,
FreeRTOS, TI-RTOS, Linux, Google Cloud Platform, AWS

EXPERIENCE

HCI Research Assistant

September 2019 - Current

University of Waterloo

Waterloo, ON

- Designing and developing a Django tool for configuring realistic speech expressions in robots.
- Involved in research and design of robots as teachable agents to enhance students' learning.
- Building a Meteor application for teaching coding patterns to undergraduates using comic strips.

Data Scientist

May 2019 - August 2019

Capital One

Toronto, ON

- Core Python developer of RapidRecharge, a pipeline tool for rapid cloud-based model rebuilding and refitting.
- Directly facilitated the rebuilding of a multi-million dollar machine learning model.
- Engineered RapidRecharge to support pandas and PySpark workflows while allowing for easy customization.

Embedded Software Engineer

September 2018 - December 2018

KA Imaging Inc.

Kitchener, ON

- Developed CC2640R2F MCU firmware in C for system monitoring and sensor communication via I2C, SPI.
- Designed multithreaded firmware and custom commands for concurrent serial and Bluetooth communication.
- Developed C# GUI in Visual Studio for MCU communication with intuitive display for batch sensor data.

Digital Signal Processing Engineering

January 2018 - April 2018

Peraso Technologies Inc.

Toronto, ON

- Developed libraries to interface with instruments for test automation using Tcl and SCPI.
- Designed TeamCity build chain for test automation using Batch and TCSH to save 20 man-hours/week.
- Performed DSP to evaluate HFSS Simulation and actual antenna performance with Matlab.

Android QA & Web Developer

May 2017 - August 2017

Wattpad Corp.

Toronto, ON

- Hosted Node.js Express server for content review tool React frontend, boosting moderation speeds by 300%.
- Ensured smoother UI transitions by implementing asynchronous Espresso tests using idling resources.

PROJECTS

Dream Angel

C#

- A Unity3D platforming game with pseudo-random level generation based on 3D maze generation algorithms.

Nasa Space Apps Challenge 2018 (Top 6) - DisasterPrep Bot

Python

- Developed Facebook chatbot using ngrok, Flask and Heroku that prepares users for potential natural disasters.