KEN JEN LEE

(647)-877-8228 ⋄ kj24lee@uwaterloo.ca ⋄ linkedin.com/in/kenjenlee ⋄ github.com/leekenjen2328

EDUCATION

University of Waterloo September 2016 - April 2021
Candidate for B.ASc. in Honours Computer Engineering, Artificial Intelligence Option, Co-op GPA 92.20%
Related Courses: [CS 889] Conversational Agents [CS 480] Introduction to Machine Learning

TECHNICAL SKILLS

Languages	Python, C/C++, JavaScript, MySQL, VHDL, Assembly
Tools/Libraries	Tensorflow, Django, PySpark, pandas, scikit-learn, MongoDB, FreeRTOS, TI-RTOS, Linux, Google Cloud Platform, AWS

EXPERIENCE

HCI Research Assistant September 2019 - Current
University of Waterloo *Waterloo, ON*

· Led development on Curiosity Notebook, a Django based learning-by-teaching web application.
· Brainstormed and implemented user interaction mechanisms with conversational agents.
· Designed and facilitated three user studies; contributed to writing research papers.
· Published workshop papers in CUI@CHI 2020 and HRI 2020.

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

Online Chat Predators Detection Python

· Wrote a course paper on predators identification from online conversations using SVM, CNN and GAN.

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.