

Maeve B. Kennedy • Computer Scientist & Software Developer

mae@co60.ca | github.com/co60ca

Career Experience

- Teaching Assistant / Research Assistant**, University of Guelph, Guelph, Ontario Sept, 2017 – Ongoing
- Conducted labs for digital signal processing
- Software Developer**, Cognitive & Affective Neuroscience Lab, St. Catharines, Ontario May, 2017 – Sept, 2017
- Reliability Engineering for EEG processing pipeline
 - Adapted scheduler submission tools for Slurm scheduler
 - Debug / optimize super computer software using Octave & MATLAB, Fortran
- Teaching Assistant / Tutor**, Brock University, St. Catharines, Ontario Jan, 2016 – April, 2017
- Present lab material to students catering to their learning styles
 - Evaluating student works for Advanced Object Orientation and instructing proper object orientation
 - Assist students with any course material that Brock University Computer Science offers
- Technical Support Analyst for Cognos BI**, IBM Canada, Ottawa, Ontario Jan, 2015 – Dec, 2015
- Working as a team in customer service environment supporting colleagues to provide a larger knowledge base to customers
- Analyst, IBM Helpdesk for Best Buy**, One Touch Direct, St. Catharines, Ontario May, 2013 – Oct, 2013

Education

- Graduate Engineering, MSc**, University of Guelph, Guelph, Ontario 2017 – Present
- Co-Supervised by Dr. Graham W. Taylor and Dr. Petros Spachos
 - Researching Machine Learning and Indoor Wireless Location
- Computer Science, BSc**, Brock University, St. Catharines, Ontario 2012 – 2017
- First Class Standing
 - Concentration in Intelligent Systems, Minor in Business
 - Dean's List 2014-2016 (80%+ average)
 - Brock University Entrance Scholarship, 2012
 - Neural Networks, Machine Learning, Artificial Intelligence, Theory of Computation, Computer Graphics, Computer Networks, Parallel, Advanced Object Orientation, Advanced Algorithms, Data Structures

Technical Experience

- Skilled with Java, Go, C/C++, PHP, Python, Octave/MATLAB, SQL, JavaScript (node/npm), and other contributing web technologies
- Experienced with data processing/data science with Python including numpy/pandas
- Proficient with machine learning using deep neural networks, convolutional neural networks, recurrent neural networks, and more traditional methods such as SVM, and KNN
- Skilled with various public cloud providers like AWS, Azure and DigitalOcean including cloud hosted deep learning
- Front and backend web development, such with React, Flask, Django, Laravel frameworks, and MVC patterns
- Common software development environments and revision control tools as well as software development life cycles and different process models in software design
- Application and system security especially with web
- Unix and Unix-like systems such as Linux, administration, programming, build systems, scripting — writing tools and working with super computers
- Building applications for Docker/Docker Swarm

Projects

- **Beaconpi** (Ongoing) A system for aggregating data from Bluetooth Low Energy beacon scanners for indoor localization as well as tools and interfaces for exploring the data and filters, written in Go/Python/Javascript
- **EmotionNet** (2017) Machine learning model that predicts the facial emotions in photographs with Convolutional Neural Networks in pytorch
- **Coco** (2016) React application for aggregation of code coverage data for Mozilla Firefox
- **SMSH** (2016) Provides alternative to iMessage for Android devices using Android/Java, Go, Web

Extracurricular

- Club Member/Executive**, ACM chapter of Brock University 2012 – 2017
- Association for Computer Machinery
 - Attend coding competitions representing Brock University
 - ACM 2014, CS Games 2016
 - Organizing events and presenting talks expanding knowledge in Brock Computer Science