GUILLAUME LAM

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WORK EXPERIENCE

Ormuco

May 2019 - Aug 2019

Software Developer Intern (Montreal, Qc)

- Developed new algorithm for identify keywords of error messages for self-healing environments. This led me to fixing the unsupervised clustering algorithm and designing a new structure which was all written in **Python**.
- Implemented new services and calls for the platform in the backend using the framework **Flask**.
- Developed new features in the frontend using React.

Jive Communications

May 2018 - Aug 2018

Software Developer Intern (Montreal, Qc)

- Ported AGI (call routing tool) from virtual machines to containers. AGI application was coded in **Java** and the tool used for containerization was **Docker** and **Kubernetes**.
- Developed the new voicemail transcription feature. The application was coded in **Go**, used **Google's Speec**h as the speech-to-text application, containerized using **Docker**, and **Kafka Apache** as temporary storage for messages.
- Developed a tool to create load tests for the voicemail transcription. This tool was made using Go, Bash and Docker.
- Modified the deployment tool of the application which routes calls of the product. The application used to be running on VM, but is now running using **Docker**. Tool used **Groovy** to automate the process.

Ericsson

May 2017 - Dec 2017

Software Developer Intern (Montreal, Qc)

- -Developed mobile interface and frontend for an Internet of Things (IoT) platform which monitors home and neighbourhood security. Worked with **Ionic** to facilitate cross-platform development.
- -Improved overall architecture of application using **Flask** and **MongoDB**.
- -Deployed machine learning in facial recognition to detect potential dangers of break-ins using **OpenCV** and **Tensorflow**.

OTHER PROJECTS

2019 Nov	Reproducibility Challenge of a NeurIPS pape r, final project for a course
	 At the discretion of students, the final project of verifying results of a published paper was allowed to be a NeurIPS paper and students could enter the Reproducibility Challenge. Following the ablation track, my team and I verified the sensitivity of parameters published in a paper. (Link which includes our paper, the code repository, the run data, and the original paper) Original paper explored the success of unsupervised learning of the representation of states for multiple atari games.
2019 Nov	Parallelized CNN from scratch in C++, final project for a course - Implemented a CNN from scratch as final project for a parallelization course fully in C++ Parallelization was achieved using the CUDA library.
2018 Oct	GIF Sentiment Analysis with McGillAi, student run organisation -Worked with team on project to recognise emotion in a GIF (small video)Application being built in python and uses machine learning libraries such as Keras, Tensorflow, and PyTorchUsing the MIT GIFGIF media lab data as dataset for project and relies on deep learning .
2018 Jan	Ai Tetris Player at Conuhacks, Hackathon -Built a Tetris player in Python and Javascript using Flask which hosts the player -Used Python tensorflow to build Ai to play the game
2017 Nov	Accident Predictor at Code Jam, Hackathon -Team lead on developing project which would anticipate accident rates in MontrealApplication helps predict accident probability based on time and weather conditions on roads.
2017 Jan	Face descriptor at McHacks, Hackathon -Worked on an application that could create a description of a newly seen faceDescription of new face based on similarity to trained faces using Microsoft's Face API.

TECHNICAL SKILLS

Programming Languages	Python – Julia – C – C++ – Bash – GO - Java –
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JavaScript/Node – Html/CSS

Libraries & Frameworks PyTorch— OpenCV — Tensorflow — Keras — MongoDB —

Flask – Ionic – React

Tools Git – Docker – Kubernetes

Spoken Languages English, French; full professional proficiency for both

EDUCATION

2020 - (2022)	University of Montreal (MILA), Ms Computer Science, AI specialization CGPA: 4.3/4.3	
2016 - 2020	McGill University, B. Eng in Software Engineering CGPA: 3.5/4.0	
2014 - 2016	John Abbott College, Diploma of College Studies (DCS)	
2009 - 2014	College Sainte-Anne, High School Diploma	
ACADEMIC DISTINCTIONS		
Fall 2017 - Present	Golden Key Member, membership requiring to be in top 15% of your program	
Fall 2015 & Winter 2016	Honour Roll in Honour Sciences at John Abbott College	
REFERENCES		

Available upon request