# **GUILLAUME LAM**

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# **WORK EXPERIENCE**

**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**

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 Montreal.

-Application helps predict accident probability based on time and weather conditions on roads.

2017 Jan **Face descriptor** at McHacks, **Hackathon**

-Worked on an application which could create a description of a newly seen face.

-Description of new face based on similarity to trained faces using Microsoft’s Face API.

# **TECHNICAL SKILLS**

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

**Libraries & Frameworks** OpenCV – Tensorflow – MongoDB – Flask – Ionic - React -

**Tools** Git – Docker - Kubernetes

**Spoken Languages** English, French: full professional proficiency

# **EDUCATION**

2016 - 2020 **McGill University**, B. Eng in Software Engineering

CGPA: 3.69/4.00

2014 - 2016 **John Abbott College**, Diploma of College Studies (DCS)

2009 - 2014 **College Sainte-Anne**, High School Diploma

# **ACADEMIC DISTINCTIONS**

Fall 2017 **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