

# GUILLAUME LAM

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## WORK EXPERIENCE

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### 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 Speech** 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**.

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## OTHER PROJECTS

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2018 Oct - Present

#### GIF Sentiment Analysis with McGillAi, student run organisation

- Currently working 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 PyTorch.
- Using the MIT GIFGIF media lab data as dataset for project and relies on deep learning.

2018 Jan	<b>Ai Tetris Player</b> at Conuhacks, <b>Hackathon</b>  -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	<b>Accident Predictor</b> at Code Jam, <b>Hackathon</b>  -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	<b>Face descriptor</b> at McHacks, <b>Hackathon</b>  -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

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<b>Programming Languages</b>	Python – C – C++ – Bash – GO - Java – JavaScript/Node – Html/CSS
<b>Libraries &amp; Frameworks</b>	OpenCV – Tensorflow – MongoDB – Flask – Ionic - React -
<b>Tools</b>	Git – Docker - Kubernetes
<b>Spoken Languages</b>	English, French: full professional proficiency

## EDUCATION

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2016 - 2020	<b>McGill University</b> , B. Eng in Software Engineering CGPA: 3.64/4.00
2014 - 2016	<b>John Abbott College</b> , Diploma of College Studies (DCS)
2009 - 2014	<b>College Sainte-Anne</b> , High School Diploma

## ACADEMIC DISTINCTIONS

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Fall 2017 - Present	<b>Golden Key Member</b> , membership requiring to be in top 15% of your program
Fall 2015 & Winter 2016	<b>Honour Roll</b> in Honour Sciences at John Abbott College

## REFERENCES

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Available upon request