

Jacob Gagné

SOFTWARE ENGINEERING · CONCORDIA UNIVERSITY

Montreal, Que. Canada

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Work Experience

AppHelp by AppDirect

Montreal, Canada

BACKEND DEVELOPER INTERN

May. 2017 - PRESENT

- Implemented resource efficient backend micro services in Scala.
- Performed research tasks ranging from micro service authentication methods to impacts of framework upgrades.
- Collaborated with colleagues to finalize decisions related to service-to-service secured communications.

Lockheed Martin Canada

Montreal, Canada

SOFTWARE DEVELOPER INTERN

Sept. 2016 - Dec. 2016

- Developed 3D high fidelity simulations in Java using jMonkeyEngine.
- Maintained and implemented acceptance tests using JUnit and Mockito.

BreakMates

Montreal, Canada

CO-FOUNDER, FULL-STACK DEVELOPER

Jan. 2013 - Aug. 2016

- Created a web application used by end users and an API used for mobile application communications.
- Designed and implemented an API backed Android Application for end users showcasing Material Design.
- Built a stable and scalable web server infrastructure utilizing Amazon Web Services (AWS).

IR-Win

Montreal, Canada

FULL-STACK DEVELOPER

Sept. 2011 - Aug. 2016

- Constructed and optimized algorithms for complex financial mathematical equations.
- Programmed frontend and backend validations using CodeCharge Studio.

Education

Concordia University

Montreal, Canada

B.E. IN SOFTWARE ENGINEERING

Sept. 2015 - Exp. May. 2019

- Co-organized a weekly Algorithm Time as VP Projects of Software Engineering and Computer Science Society.
- Organized tryouts and practices for the Concordia Competitive Programming teams as Director of Competitions.

John Abbott College

Montreal, Canada

TECHNICAL DEGREE IN COMPUTER SCIENCE

Sept. 2012 - May. 2015

- Dean's List Fall 2014 (98.5% overall average, 2nd best of all students).

Notable Projects

BringIt! - Uber for everything else

McGill University

MCHACKS HACKATHON

2016

Completed a web application that allowed users to request deliveries from other end users. Designed and implemented front end, data models and interactions with Firebase. *Technologies: Node.js, Firebase, HTML, CSS, Bootstrap*

Virtual Motions Lab

Harvard University

HACKHARVARD HACKATHON

2015

Created a virtual reality program with three colleagues. Responsible for the VR environment and virtual physics. The software allowed complex educational concepts to be taught in a virtual environment with model manipulation and labeling. *Technologies: Oculus Rift, Leap Motion, C#, Unity3D*

Twitter Surveys

Concordia University

LOCAL HACK DAY HACKATHON

2015

Developed a web application that utilized the Twitter API to create surveys. Results were aggregated and displayed by a user interface. Tasked with back end development including communications with the Twitter API. Aided teammate with front end. Our team of two developers won first place. *Technologies: HTML, JS, CSS, PHP, MySQL*

Awards

2017	Top Five , CS Games	<i>North America</i>
2017	Top Ten in Canada , IEEEExtreme 11.0	<i>World Wide</i>
2016	Top Twenty , CS Games	<i>North America</i>
2016	Second place winner (Certificate from the Dean) , Concordia Programming Competition	<i>Montreal, Canada</i>
2015	First place winner , Concordia Local Hack Day Hackathon	<i>Montreal, Canada</i>
2014	Dean's List , Fall Semester (98.5% Overall Grade)	<i>Montreal, Canada</i>

Skills

Programming: JavaScript, React Redux, Scala, Java (and Android), C++, Python, HTML, CSS, Bash, PHP, Git, Octave, C#.

Security Clearances: NATO Secret and Controlled Goods.

Databases: PostgreSQL, MySQL, Firebase, MongoDB and Redis.

Languages: Perfectly bilingual, French and English.

Other Projects & Certifications

PixelPerformance Online Store	2017
TYPESCRIPT, NODE, REACT, REDUX, POSTGRESQL	
TeamStudy Student Collaboration Tool	2017
NODE, REACT, REDUX, MONGO	
Personal Portfolio Website	2016
NODE, JADE, EXPRESS	
GPA+ Study Group Finding App	2016
ANDROID JAVA	
Stanford Online Machine Learning (Certificate - 97.6% Grade)	2016
OCTAVE	
Restaurant Notification Web App	2014
PHP, HTML, MYSQL, CSS, JAVASCRIPT, JQUERY	
Homework Tracking App for Students & Teachers	2014
ANDROID JAVA	
GNR Teas Website	2013
PHP, HTML, MYSQL, CSS, JAVASCRIPT, JQUERY	
Social Network Nebula	2014
PHP, HTML, MYSQL, CSS	
Android Application for Beginners to the Operating System	2011
ANDROID JAVA	