

# Justin Bell

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## EDUCATION

### MCGILL UNIVERSITY

BENG IN SOFTWARE ENGINEERING  
Expected May 2018 | Montreal, Qc

## LINKS

Github:// [belljustin](#)  
LinkedIn:// [belljustin](#)

## SKILLS

### PROGRAMMING

Over 5000 lines:

Python • Java • Shell  
Go • C • L<sup>A</sup>T<sub>E</sub>X

Familiar:

Javascript • F# • MySQL

### SKILLS & TOOLS

AWS • GCE • Docker  
Kubernetes • Concourse • Jenkins  
Unix • Vim • Git  
Unit Testing

## EXPERIENCE

### LIGHTSPEED HQ | DEVOPS INTERN

May 2017 – Sep 2017 | Montreal, QC

- Deployed 3 major projects to production, 2 of which were deployed in Kubernetes.
- Replaced a parallel database querying tool that previously cost the company \$150,000/yr
- As a member of a special ops team, introduced docker containerization and high availability to the company

### DISTRIBUTED DIGITAL MUSIC ARCHIVES LAB | RESEARCH ASSISTANT

May 2016 – May 2017 | Montreal, QC

- Solved race conditions in a single-page React application
- Major development on a Django application that indexes and displays medieval manuscripts for researchers
- Deployment of applications in AWS

### COMMUNICATIONS SECURITY ESTABLISHMENT | SYSTEMS ENGINEER INTERN

Sept 2015 – Dec 2015 | Ottawa, ON

- Received Top Secret security clearance. Valid until Sept 2019
- Performed Javascript vulnerability research and developed proof of concept exploits
- Developed a testing framework to simulate various OS, browsers, and network configurations

## EXTRA CURRICULAR

### MCGILL ROBOTICS | AUV SOFTWARE LEAD (PRESENT ROLE)

Sept 2014 – Present | Montreal, QC

- Lead a team of a dozen students to develop software for an Autonomous Underwater Vehicle (AUV)
- Implemented software defined PID controls for robot navigation and servoing
- Extensive experience with the Robot Operating System (ROS)

### OPEN SOURCE | CONTRIBUTOR

- Contributed a bug fix for Concourse that stopped external sources from caching volatile resources
- Improved documentation for Kubernetes

### HACKATHONS | PARTICIPANT

- What's Up Doc - a voice assistant for doctors that recognizes prescriptions, recommending alternatives if given drugs aren't covered by patient insurance
- Giftcards - microservice that provisions giftcards and manages transactions