BENJAMIN WILLMS

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Intent

I am looking to improve my knowledge of software systems and my coding skills, while gaining valuable real-world working experience. I would love to explore areas of programming I have not delved deeply into, such as UI's, the web, and persistence.

Software Skills

Java | JUnit, Java Swing | 3 years

PHP | PHP Unit | 1 month

C++ | 2 months

Eclipse | 3 years

Visual Studio | 2 months

GitHub | 2 years

Git Bash | Only when required

Competencies and Other Skills

- Problem Solving
- Solution Design
- Communication
- Math
- Word
- Excel

Learning in Upcoming Semester

- Python
- OCaml

Languages

English

French

Hobbies

- Guitar
- Videogames
- Singing
- Drums
- Hockey
- Badminton

Projects

Fall 2016 Design Principles and Methods Design Competition Hardware Team Manager	▪ As a team of 8 with a 5-week timeline, we designed, built, and programmed a fully autonomous robot using the Lego Mindstorms platform, and LeJOS Java firmware. ▪ Once the hardware design was finalized, I wrote and debugged the Odometry Correction software, and helped the software team with debugging and improvements in the final week of the project. ▪ **Our team finished in 1st place for the competition.**
Winter 2017 Intro to Software Engineering Class Project Desktop Java Application Team Leader	▪ As a team of 5, we designed, programmed, and tested a TA/Grader job management application for Android (Java), web (PHP), and PCs (Java, Java Swing). ▪ The process included an in-depth planning phase, with the creation of detailed UML diagrams. ▪ Notable project milestones included the software architecture design, quality assurance plan, and release pipeline. ▪ **Our team finished in the top 5.**
Fall 2017 Software Validation Class Project Testing Team Member	▪ As a team of 5, we were tasked with planning, coding, and documenting System, Integration, and Unit tests for numerous classes in the Apache Commons Collections Java library. ▪ Notable test strategies used include Boundary Value Analysis, Kung et al. integration test strategy, and Control Flow Analysis. ▪ Test cases for the System and Unit testing phases were coded using Junit 4, and Jukito.

Education

2013-2015	Champlain College, 2580 Rue College, Sherbrooke, Québec	DEC in **Pure and Applied Science** received in June of 2015. Received the program award for Mathematics.
2015-present	McGill University, 845 Rue Sherbrooke O, Montréal, Québec	Due to complete **Bachelor of Software Engineering** in Fall 2019. **CGPA: 3.85/4.00** Dean's Honour List and McCaig Family Scholarship for the 2016-2017 year.