

AREK FIELDING

ABOUT ME

I am a third year Engineering student at the University of Western Ontario and majoring in Software Engineering. I am good at critical thinking and can pick up new skills quickly. I also have experience in an engineering environment and have learned about team dynamics and workflow.

EDUCATION

UNIVERSITY OF WESTERN ONTARIO: SEPTEMBER 2016 - PRESENT

- Currently in Software Engineering
- In 3rd year

GORDON GRAYDON MEMORIAL SECONDARY SCHOOL

- Part of the International Business and Technology Program (IBT)
- Graduated on the Honor Roll

WORK EXPERIENCES MDA INTERNSHIP: 2017, 2018

- MDA is a robotics and automation company, historically specializing in aerospace but now is branching out into other fields such as medical robotics
- Helped create Intellectual Property Disclosure; Used scripting to automate sorting and classification of documents
- Created a web portal for an internal simulator. Has a queue system, data storage, user system. Created using a Python Flask backend along with MySQL for database management.
- Aided in migrating simulator to the cloud. Specifically moved the simulator to AWS EC2 instances.
- Learned about engineering workflow, team dynamics and real life application of the design process
- Helped develop an employee management tool using .Net and SQL technologies.

OTHER EXPERIENCES RIOT API CHALLENGE: 2017

- A 3-week challenge to create a website/application that utilizes the Riot Games API in a way that achieves the goal given by Riot for the challenge.
- Won runner-up in the education category
- This was the first time I worked on a website from start to completion with a partner which helped teach me much about working in teams, work delegation and writing integratable code

HACKATHONS: 2017, 2018

- Wester Hackathon (2017), Delta Hacks (2017), Hack the 6ix (2018)
- Severe time limitation which helped me develop skills such as communicating with team members under pressure and task prioritization.

WESTERN ENGINEERING COMPETITION — PROGRAMMING DIVISION: 2016

- An engineering competition where a problem is given, and a solution has to be created within 6 hours, and presented the following day
- There was a presentation component which helped me practice talking to an audience about technical topics

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- The competition helped me learn how to work under stress, collaborate with my group members, and how to effectively communicate my ideas

CANADA COMPUTING COMPETITION: 2015

- A 3-hour coding competition
- Improved my ability to think and work under pressure

OUTWARD BOUND: 2015

- Three week camping and hiking learning course in Alberta
- Developed collaboration, leadership, and conflict management skills

ROBOTICS TEAM: 2013 - 2015

- Participated in FIRST Robotics
- Member of the electrical and programming sub-teams
- Team made it to World Championships
- Developed problem solving, time management, and collaboration skills

KARATE SUMMER CAMP: 2014, 2015

- Assistant instructor at the camp
- Teaching younger children helped me become more patient and understand of others' opinions

INTERESTS, HOBBIES AND SKILLS

MARTIAL ARTS

- Practicing Karate for 7 years
- I have a black belt in karate

PROGRAMMING TECHNOLOGIES

- C++, C#, Java, JavaScript, NodeJS, Python, HTML, CSS
- MySQL, Unity

OTHER

- Hockey, Video Games, T.V. Shows