Case **Ploeg**

SOFTWARE ENGINEER INTERN

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Education

University of Toronto   *Scarborough, Ontario*
HONOURS B.S. IN COMPUTER SCIENCE (SOFTWARE ENGINEERING SPECIALIST)   *Sep. 2017 - Apr. 2021*

- Major GPA 3.79 Overall GPA 3.63
- Dean's List 2017-2018 school year
- Relevant Courses: Software Design, Theory of Computation, Linear Algebra I&II, Calculus I&II, Multi-variable Calculus, Discrete Mathematics, Introduction to Computer Science I&II

Skills

Languages: Python, Java, HTML, CSS, Javascript, Node.js

Technologies: Git, Svn, Bootstrap, Processing, Firebase

Projects & Extracurricular Activities

Automated Reminder Bot for Twitter
- Utilized Twitter's API to automate repetitive tasks, creating a bot that is self-sufficient 24/7
- Implemented a database for messages using Firebase and created an algorithm with Node.js to decide when reminders are sent to users, resulting in a functional bot that reacts dynamically

Visualization of Mathematics Concepts
- Created animations using JavaScript (p5.js / processing.js) to showcase interesting mathematical concepts, resulting in an ability to easily share with and educate peers
- Utilized object-oriented programming to create a flexible system, allowing the user to interact with the algorithms and learn from different variations of the animation

Mock Implementation of Unix Shell and File System
- Crafted a functioning version of the Unix Shell using Java, working within a team of 4 students
- Successfully implemented a file system by utilizing Object-Oriented design principles along with testcases using Junit, resulting in a reliable system that can be easily maintained

Programming and Mathematics Competitions
- Applied knowledge of Python and data structures to solve algorithmic questions, resulting in a top 10 placement out of over 200 University of Toronto students (open.kattis.com/users/case-ploeg)
- Past competitions: Google Code Jam 2018, Microsoft Coding Challenge, UTSCode 2018

Work Experience

Public Services and Procurement Canada   *Toronto, Ontario*
WEB DEVELOPER (INTERN)   *Sep. 2018 - Present*
- Updated documentation for the main project worked on, saving multiple hours of trial and error for future interns
- Currently working on ensuring webcontent for Public Accounts Canada is fully accessible to the Canadian population

Tim Hortons   *Elmvale, Ontario*
TEAM MEMBER   *Mar. 2015 - Jun. 2017*
- Encouraged other team members to create positive work environment, resulting in a happier and more productive workplace where employees were motivated to do a good job

Kangaroo Math Competition   *Scarborough, Ontario*
VOLUNTEER   *March 2018*
- Directed hundreds of participants, allowing the event to run smoothly and taking pressure off of organizers