

Case Ploeg

SOFTWARE ENGINEER INTERN

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Skills

Languages: JavaScript, Python, Java, PHP, SQL, HTML, CSS

Frameworks / Technologies: React, Redux, Angular, Typescript, ES6, SASS, Django, MVC, JIRA, RESTful APIs, Git, Unix

Education

University of Toronto

HONOURS B.S. IN COMPUTER SCIENCE (SOFTWARE ENGINEERING SPECIALIST)

Toronto, Ontario

Sep. 2017 - Apr. 2021

- GPA: 3.7
- Relevant Courses: Software Design, Theory of Computation, Data Structures, Systems Programming
- Projects: Maze Solving Regular Expressions 🐍, Snake Game in Verilog 🐍

Work Experience

CaseWare International

SOFTWARE DEVELOPER CO-OP - CLOUD ENGAGEMENTS TEAM

Toronto, Ontario

May 2019 - Aug. 2019

- Made a major contribution to the development of a new feature that **90% of users** showed interest in using while working on an **Agile** squad interacting with other developers, UX designers, and QA
- Improved over 5000 lines of legacy **AngularJS** code while converting to **Angular8**, reducing technical debt
- Produced production-ready code while addressing critical bugs in a live codebase, resolving urgent issues
- Led a design meeting and implemented stakeholder feedback to ensure user satisfaction with a new feature

Public Services and Procurement Canada

WEB DEVELOPER INTERN

Toronto, Ontario

Sep. 2018 - Dec. 2018

- Spearheaded the development of a custom web application using **PHP** and **MySQL** to automate annual work on 700 **HTML** documents, saving hundreds of hours in development time
- Became an in-house expert on a new technology and transferred knowledge to senior employees
- Ensured accessibility for the Canadian population while working on critical public government websites

Personal Projects & Extracurriculars

Book Club Website



- Founded an independent book club and led discussion on over 15 books in the past year, bridging the gap between literature and technology while advocating for the importance of reading for pleasure
- Used **React**, **Redux**, **Django** and **MySQL** to create a website made to host book club discussions
- Implemented email subscriptions using the Mailgun API, increasing engagement with users
- Built a custom **REST API** to serve content, enabling push notifications and request throttling
- Self-hosted and maintained the website using a DigitalOcean **Unix** virtual machine

Task Management Web Application



- Successfully implemented a pragmatic task management system using **React** and **Firebase**, providing users with the ability to sort and filter their tasks in a highly customizable fashion

Visualizations for Math Education



- Used **JavaScript** to create an interactive visualization aimed at increasing student's intuition for simple trigonometry, resulting in improved appreciation for math among friends and family

Competitive Programming



- Solved over 250 data structures and algorithms questions using **Python** and achieved 2nd place out of over 200 University of Toronto students for the Open Kattis online judge