

Eric Pham

Developer

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Summary

Hi, I am a computer science student who is aspiring to work in the field of software development. I greatly enjoyed my time working on the projects I have shared in this resume and am excited to be a part of this growing industry.

I have worked with: **JavaScript, HTML, C, C++, Python, Java, Lua, React, SQL, MongoDB, Mongoose, AWS, Git** and more.

Education

Carleton University / Bachelor of Computer Science Honours

SEPTEMBER 2018 - APRIL 2023, OTTAWA, ON, CA

Software Engineering Stream, Co-op, Minor in Mathematics

3rd Year Standing, GPA: 11.9/12.0 (A+), **Coursework:** Software Engineering (Object-Oriented and Intro), Fundamentals of Web Applications, Operating Systems, Systems Programming, Abstract Data Types/Algorithms, Discrete Structures

Experience

Ciena / Embedded Software Engineer Intern

MAY 2020 - DECEMBER 2020, OTTAWA, ON, CA

- Implemented essential features in **Agile** environment for automated testing software in **Control Plane**
- Developed feature that automatically reports software issues ranging from minor to critical by filling in **JIRA** tickets with sufficient information
- Improved installation process of software by creating installation script that seamlessly sets up the **Linux** and **virtual Python** environment
- Accelerated development of web application for testing software by creating proof of concept demo, using **Flask** server and **Socket.IO**
- **Documented** software information with instructions and background information including diagrams to clearly lay out new features for users

Carleton University / Teaching Assistant

SEPTEMBER 2019 - APRIL 2020, OTTAWA, ON, CA

- Engaged hundreds of students during assignment evaluations by highlighting good programming practices and efficient algorithms
- Instructed and provided guidance to students during tutorials, demonstrated **communication** skills when explaining key coding concepts

Projects

eBook Store / Frontend & Backend Developer

- Collaborated with partner to create an [unofficial e-commerce book store](#)
- Designed and implemented **SQL** database schema to store collections, books, users, authors, publishers, etc.
- Exposed a RESTful API to frontend clients using **AWS** services
- Designed web store with **React** and Bootstrap for UI

Trivia Game / Web Developer

- Created a [multiplayer trivia game](#) that prompts users questions and checks answers, designed as a web app using **Node.js**
- Designed to host multiple games simultaneously, complete with chat rooms
- Utilized Bootstrap library to design a clean interface for the game with a more dynamic and simple design
- Examined different methods of running servers and using web APIs in Node.js to build trivia rounds quickly and efficiently

Stack Search / Backend Lead

- [Technical skills-based job search engine](#) submitted as a hackathon team project
- Communicated with teammates to coordinate and transition data seamlessly between frontend and backend
- Converted data scraped from the web into **JSON** data that would be readable by the search engine program when requested
- Self-taught **Selenium** quickly to web scrape Indeed search results for building internal database

Cell Tower Simulator / Server Developer

- Created a [visual representation of randomly generated simulated cars connecting to cell towers](#) using **C**.
- Designed with **TCP**, sending data between servers (phone networks) and clients (car) using **bitwise operators, multithreading and multiprocessing**

Awards

Dean's List (All Terms to Date)

Faculty Scholarship (2018/19)

Carleton Academic Scholarship (2020)

Tracey and Siva Ananmalay Scholarship in Computer Science (2020)

Related Involvement

Hackathons / **cuHacking**, 2019 & 2020

Conference / **CUSEC**, 2020

Volunteer Experience / **Virtual Ventures** @ Carleton University, 2019