

Eric Pham

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Education

Carleton University

Ottawa, ON

BACHELOR IN COMPUTER SCIENCE HONOURS, CO-OP

Sep 2018 – Apr 2023

- GPA: 11.88/12.0
- Minor in Mathematics
- Awards: Carleton Academic Scholarship (2020), Tracey and Siva Ananmalay Scholarship in Computer Science (2020), Faculty Scholarships (2018/2019), Dean's List (2019/2020)

Experience

March Networks

Ottawa, ON (Remote)

SOFTWARE DEVELOPER INTERN

May 2021 – Aug 2021

- Added to Rest API to support new features while maintaining code consistency and quality in monorepo
- Polished design and functionality of frontend in React, MobX, and TypeScript to improve user experience
- Connected the server to AWS Batch and CloudWatchLogs SDKs to display and report issues in the web client
- Converted a mock application design into a fully-functional frontend implementation
- Reported and fixed several bugs, such as integer overflows occurring at the RPC layer

Ciena

Ottawa, ON (Remote)

EMBEDDED SOFTWARE ENGINEER INTERN

May 2020 – Dec 2020

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

Carleton University

Ottawa, ON

TEACHING ASSISTANT

Sep 2019 – Apr 2020

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

Projects

eBook Store

PostgreSQL, React, AWS Lambda,
AWS API Gateway

COLLABORATED WITH A PARTNER TO CREATE UNOFFICIAL E-COMMERCE BOOK STORE BY DESIGNING/IMPLEMENTING AN SQL DATABASE SCHEMA AND A STATIC WEB STORE CONNECTING TO AWS.

Multiplayer Trivia Game

Node.js, Socket.IO

A TRIVIA MULTIPLAYER GAME THAT SUPPORTS MULTIPLE SIMULTANEOUS GAMES WITH CHAT ROOMS. GAMES WILL PROMPT USERS QUESTIONS AND CHECKS THEIR ANSWERS TO ADD TO POINTS. HOSTED FROM A SERVER FOR USERS TO INTERACT WITH EACH OTHER. USES WEB APIS TO BUILD TRIVIA ROUNDS QUICKLY AND EFFICIENTLY.

Cell Tower Simulator

C, Linux

A VISUAL REPRESENTATION OF SIMULATED CARS CONNECTING TO CELL TOWERS USING C. DESIGNED IN TCP, SENDING DATA BETWEEN SERVERS (PHONE NETWORKS) AND CLIENTS (CAR) USING BITWISE OPERATORS, MULTITHREADING AND MULTIPROCESSING.

Skills and Interests

Languages: Javascript/Typescript, Python, C++, Java, C

Tools: AWS, Git, MongoDB, TypeORM

Other: HTML, React, Node.js, gRPC, SQL, Agile Methodology

Interests: Web Development, 3D Rendering, AI