

HAROLD LU

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EXPERIENCE

Twitter, Software Engineer Intern - Remote

June 2021 - Sep 2021

- Led the development of a custom, interactive Twitter application (Node.js, PostgreSQL) to analyze users and their networks to enhance engagement on the platform
- Implemented a modular sorting algorithm for unique data structures, decreasing sorting time by 30%
- Built interface (React.js) to display analysis of trending content, with over 85% user satisfaction
- Leveraged the Twitter API v2 and Twitter Ads API to create a novel user experience on Twitter

Ericsson, Software Developer Intern - Ottawa, ON

May 2020 - June 2021

- Supervised and updated the backend support for new telecommunications technology (C#, .NET, SQL Server) by integrating data structures for new hardware
- Developed unique search algorithm to decrease user Analytics Portal data validation runtime by 50%
- Designed validation tool to ensure data integrity in exported CSV files, increasing consistency by 22%
- Created unit test suite for automatic report generation component of web app using Jest and Enzyme

Carleton University, Teaching Assistant (Java) - Ottawa, ON

Jan 2020 - Apr 2020

- Conducted weekly office hours to assist students in Object-Oriented Programming with Java
- Evaluated coding standards and best practices for submissions of student assignments

PROJECTS

Book Store Web Application

- Built a web application using JavaScript and HTML with a Node.js, Express.js, and PostgreSQL backend for users to browse and purchase books from a catalogue
- Implemented system for package delivery tracking and an administrator portal to manage stock
- Organized data and assessed consistency from online book database using Python

SKILLS

Languages

JavaScript, C#, C++, Java, Python, SQL, HTML, CSS

Tools & Frameworks

Node.js, Express.js, React.js, MongoDB, PostgreSQL, .NET, Git

EDUCATION

Bachelor of Computer Science, Carleton University, Canada

Fourth Year Undergraduate, GPA 3.9/4.0, Expected Graduation: April 2022

Honours Bachelor of Science in Biopharmaceutical Science, University of Ottawa, Canada

Graduated Cum Laude, April 2019