

Steven Dinhton Nguyen

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EXPERIENCE

Software Developer Co-op – RewardOps (Toronto, ON)

Jan 2020 – Apr. 2020

- Independently developed critical integration with partner to facilitate transactions, allowing users payment and fulfillment of redeemed products
- Collaborated on team of 6 to build Rails backend integrations with partners for e-commerce platform which integrates rewards programs with over millions of transactions
- Presented to senior leadership and sought input for creation of tool to streamline database imports for dev environments, improving workflow for all backend developers
- Performed Agile/Scrum in 2-week sprints, practiced pair programming

Software Engineer Co-op – Phreesia (Ottawa, ON)

May 2018 – Aug. 2018

- Managed implementation, deployment of .NET Angular internal tool to display filterable, searchable data
- Worked in team of 2 to design Node app using Mongo hierarchical tree data structures with Angular frontend

Full Stack Developer Co-op – Dejero Labs (Waterloo, ON)

Sep. 2017 – Dec. 2017

- Worked with team of 6 on Rails app for managing video streaming hardware using Angular and MongoDB
- Implemented notification feature with RabbitMQ to send email alerts when customers' hardware exceeds data usage threshold

Web Developer Co-op – Cognitive Systems (Waterloo, ON)

Jan. 2017 – Apr. 2017

- Initiated development of high-impact customer facing custom D3.js data visualizations, displayed on front page of web app for users to analyze motion data over time in homes
- Sought input from other teams to improve effectiveness of data visualizations, presented to senior leadership the accessibility importance of using perceptually uniform colourmaps
- Cooperated with team of 3 on Rails app with React frontend for owners of home monitoring system to manage device configuration and view motion data stats
- Wrote tests reaching >90% code coverage, expanded REST API used by web and mobile apps

EDUCATION

University of Waterloo

Expected graduation 2021

B.E.S. in Geomatics / Computer Science

- 2018 Work Term Report Award

Relevant coursework: Data Types and Structures, Networks and Distributed Computer Systems, Designing Functional Programs, Algorithmic Problem Solving, Elementary Algorithm Design and Data Abstraction, Spatial Analysis, Spatial Databases, Computer Applications in Business: Databases

PROJECTS

Multithreaded A* Pathfinding System: High-performance pathfinding, able to handle 1 million path nodes with 100+ units. Pathfinding jobs are executed on worker threads concurrently, using path node information stored in native memory. Written in C# with Unity's experimental data-oriented technology stack

Sentiment Analysis: Express server with React frontend using data from tweets, was deployed on AWS

Twitter Bot: Written in Python, simulates twitter users using Markov chains, deployed via Heroku

2D Missile Game: Developed using Unity, coded in C#, built on WebGL

SKILLS

Languages & Frameworks

Node, HTML, CSS, ES6, JavaScript, TypeScript, Ruby on Rails, Angular, React, .NET, C#, Java, Python, SQL

Other

AWS, Heroku, Agile/Scrum, Git, Bash