SOFTWARE DEVELOPER · COMPUTER SCIENCE MAJOR AND MATHEMATICS MINOR · UNIVERSITY OF BRITISH COLUMBIA

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Education

The University of British Columbia

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MINOR IN MATHEMATICS, 4TH YEAR

• Cumulative Average: 93% (3.9/4.0 GPA)

Experience

Orbis Investments

SOFTWARE DEVELOPER INTERN

- Improved copying and republishing messages in a RabbitMQ message publishing application from taking a few minutes to <1 second
- Implemented date selection and various features in Angular and TypeScript for public-facing performance charts across 14 funds in 7 countries
- Developed event-driven backend code and RESTful APIs in C# for automating document publishing and aggregating fund transaction flows
- Key technologies used: C#, .NET, Angular, Microsoft SQL Server, RabbitMQ, TypeScript, Git, TeamCity, IIS

Microchip Technology

SOFTWARE VERIFICATION ENGINEER CO-OP

- Independently designed and developed an internal test reporting tool using Python, HTML, CSS, and JS to aggregate and visualize daily test data; iteratively improved on the design with user feedback; reduced debugging times for 15-20 engineers in Burnaby and Shanghai
- Improved workflow efficiency by automating the detection of failing software check-ins and passing tests using Python scripts on Jenkins CI
- Key technologies used: Python, JavaScript, Subversion, Jenkins CI, HTML, CSS, Linux, Bash, XSLT

Projects_____

Crypto Arbitrage Finder

- Created a Java application which finds triangular/circular cryptocurrency arbitrage opportunities using the Bellman-Ford algorithm
- Connected to live Binance market data with WebSocket streaming and searches through 350+ currencies and 900+ trading pairs in 800ms

Video Game Database

- Designed and implemented a database application for browsing and reviewing video games with a React frontend
- Utilized PostgreSQL and Java Spring Boot to set up data access, user authentication, and RESTful APIs; stored images on AWS S3

Battleship

- Created a web-based battleship game and implemented three different enemy AI strategies in HTML, CSS, and JavaScript
- Wrote unit tests with Jasmine and deployed on GitHub Pages at: https://irvinodjuana.github.io/Battleship/

Dog Breed Identification App

- Created a machine learning-based dog breed classifier and web application; used transfer learning on pre-trained ImageNet models with Keras
- Utilized Python and Flask to set up a backend server and developed frontend UI with React

Mimic

- Helped design and implement a Python library for machine learning text generation with UBC Launch Pad software engineering club
- Independently implemented the GRU RNN model with Keras and TensorFlow; used GitHub for version control and published library on PyPI

Technical Skills.

LanguagesPython · Java · C/C++ · TypeScript · JavaScript · C# · SQL · HTML/CSSTools & FrameworksLinux · Git/GitHub · .NET · Angular · RabbitMQ · Jenkins CI · JIRA

Honours & Awards_

- 2020 Computer Science Scholarship, Awarded for academic performance in UBC Computer Science
- 2020 UBC Sauder Sponsor Prize, Most Sustainable Project nwHacks Hackathon
- 2018-19 Trek Excellence Scholarship, Top 5% of undergraduate class, faculty, and school

https://github.com/irvinodjuana/pet-id

https://github.com/irvinodjuana/Battleship

https://github.com/jugrajb/proton

https://github.com/irvinodjuana/crypto-arbitrage

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https://github.com/ubclaunchpad/mimic

Vancouver, BC Vancouver, BC Vancouver, BC

Vancouver, BC

Sep. 2017 - Apr. 2022

Burnaby, BC

Jun. 2020 - Dec. 2020

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Burnaby, BC

Jan. 2019 - Apr. 2019