

Irvino Djuana

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)

Vancouver, BC

Sep. 2017 - Apr. 2022

Experience

Orbis Investments

SOFTWARE DEVELOPER INTERN

Burnaby, BC

Jun. 2020 - Present

- Developed backend features, UI improvements, and unit tests to a RabbitMQ message publishing application written in C#, .NET, and Angular
- Designed and implemented an autofill form feature reducing the time taken to copy and republish messages from a few minutes to <1 second
- Implemented custom date selection and various Highcharts features in public-facing fund performance charts for 14 funds in 7 countries
- Participated in code reviews and gained domain knowledge about investment management and finance as part of the Global Platforms team

Microchip Technology

SOFTWARE VERIFICATION ENGINEER CO-OP

Burnaby, BC

Jan. 2019 - Apr. 2019

- 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
- Applied Agile methodologies in a scrum-based software development team

Projects

Video Game Database

<https://github.com/jugrajb/proton>

- 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

COVID-19 Classifier

<https://github.com/drydenwiebe/covid-19-classification>

- Collaborated with three partners to tackle a private COVID-19 classification Kaggle competition - achieved 87% test accuracy
- Final PyTorch model used VGG16 as feature extractor with custom neural net layers; applied image augmentation to handle small dataset size

Dog Breed Identification App

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

- 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

Battleship

<https://github.com/irvinodjuana/Battleship>

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

Mimic

<https://github.com/ubclaunchpad/mimic>

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

Technical Skills

Languages Python · Java · C/C++ · TypeScript · JavaScript · C# · SQL · HTML/CSS

Tools & Frameworks Linux · Git/GitHub · .NET · Angular · Node.js · Jenkins CI · Subversion · JIRA

Honours & Awards

- 2020 **UBC Sauder Sponsor Prize**, Most Sustainable Project - nwHacks Hackathon
- 2019 **Trek Scholarship**, Top 5% of undergraduate class, faculty, and school
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