Alex Blackwell

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Technical Skills

Languages: Python, C++, JavaScript, Java, C, Bash, X86-64 Assembly, SQL, HTML/CSS

Technologies: Git, MySQL, Node.js, Unix command line, Jenkins, Docker, Kubernetes, Flask, Pytest

Applications: GitHub, GCP, AWS, Graphana, Jira, Google Analytics, Visual Studio Code, LaTeX

Design: UML, EER Diagrams, REST API Design, Domain-Driven Design, Database Normalization

Operating Systems: GNU/Linux (Manjaro, Ubuntu, Kali), Windows, MacOS, Android, IOS

Professional Experience

Software Development Intern   May to December 2021
Demonware, Vancouver

- One of five members on the digital marketplace team responsible for approximately 80% of Activision's income.
- Spearheaded the design and development of discounts for the CoD marketplace, facilitating discount integration.
- Optimized Call of Duty gifting API call by targeting shards, yielding an arithmetic mean speed increase of 75%.
- Created a player data manipulation client used presently by Demonware for grants upwards of 80 million players.
- Granted CoD Vanguard alpha and beta rewards, totalling 14.3 million items valued at $21.7 million in digital assets.

Machine Learning Mentee   March to May 2021
Borealis AI, Toronto

- Developed a web application to predict future New York water consumption using time-series Machine Learning.
- Compared ARIMA, SARIMA, and LSTM models to determine the best prediction captured by the lowest MAE.
- Wrote a white paper capturing the exploratory data analysis, a comparison of the models, and the project's findings.

Freelance Website Developer   May to September 2020
Fiverr, Remote

- Worked with clients to develop professional websites which started companies and built company online presence.
- Delivered multiple high quality products to clients ahead of schedule, earning an overall rating of five stars.

Personal Projects

Rate My Medication   Web Application (link ⚲)

- A full-stack website serving as a safe community for people to find reviews and share experiences of medication.
- Host hundreds of reviews on different medications help people inform themselves of medications' real-world effects.

Bias Monitor   Chrome Extension (link ⚲)

- Designed and Developed an extension that uses NLP to determine and display the political lean of a news article.
- Combat AI-driven news websites by tracking viewing patterns and encouraging both left and right political content.

Education

Simon Fraser University   Burnaby, B.C. Canada
Computing Science; GPA: 3.82   September 2019 – Present

Honours and Awards

President's Honour Roll: Term GPA greater than 4.00; SFU, Faculty of Applied Sciences   Spring 2021 – Present

Dean's Honour Roll: Term GPA greater than 3.50; SFU, Faculty of Applied Sciences   Spring 2020 – Present

Simon Fraser University Open Scholarship: Scholarship for academic achievement   Spring 2020 – Present

Second place in SFU Coding Competition: Hosted by the competitive programming club   02/09/2020

Google Kickstart Top 35 in Canada: Google Kickstart August Coding Competition   22/08/2020