

Alex Blackwell

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Vancouver, B.C. Canada

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript, Kotlin, Java, Bash, Haskell, C, X86-64 Assembly

Technologies: Git, MySQL, Unix command line, Jenkins, Docker, Kubernetes

Applications: GitHub, GCP, AWS, Grafana, Jira, databricks, Google Analytics, LATEX

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

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

PROFESSIONAL EXPERIENCE

Intermediate Software Engineer

May 2023 – Present

Demonware, Vancouver

- Developer for the Call of Duty marketplace supporting millions of online requests and transactions every day.

Junior Software Engineer

December 2021 – April 2023

Demonware, Vancouver

- Created a player data manipulation client used by Demonware for grants upwards of 80 million players.

Software Development Intern

May – December 2021

Demonware, Vancouver

- Spearheaded the design and development of discounts for the CoD marketplace.
- Sped up the Call of Duty gifting API by 75% by only querying a subset of database shards.
- Granted over 14 million in-game items for Call of Duty Vanguard alpha and beta participation.

Machine Learning Mentee

March – May 2021

Borealis AI, Toronto

- Developed a web application to predict future New York water consumption using 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 models, and the project's findings.

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 of medications to 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 by tracking viewing patterns and encouraging both left and right political content.

EDUCATION

Simon Fraser University

Burnaby, B.C. Canada

Computing Science; GPA: 3.81

September 2019 – April 2023

HONOURS AND AWARDS

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

Dean's Honour Roll: Term GPA greater than 3.50; SFU, Faculty of Applied Science 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