

GUNEET GILL

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EDUCATION

Simon Fraser University

Bachelor of Science, Computing Science and Business Joint Major

Burnaby, BC

Expected Completion: April 2026

PERSONAL PROJECTS

Memory Haven

Sep 2024 - Nov 2024

Java, MPAndroidChart, Android Studio, Firebase, Git

- Developed a secure patient and caregiver login system with Firebase Authentication, enabling role-based access for dementia patients and their support network.
- Implemented a photo and audio upload interface using Firebase Realtime Database and Firebase Storage to securely store content contributions from family and friends.
- Created an interactive response rating system with MPAndroidChart to track memory retention trends, and provide caregivers with data-driven insights.

Flappy Bird Game with AI

Jun 2024 - Jul 2024

Python, NumPy, Pygame, Git

- Recreated the Flappy Bird game with an AI component that uses a neural network to autonomously learn and improve gameplay performance over time
- Applied Object-Oriented Design to develop modular and maintainable game components like Bird and NeuralNet classes.
- Utilized Python, Pygame, and NumPy to build the game, with a neural network model consisting of two input nodes, five hidden nodes, and one output node to control the bird's actions.

Forex Data Analysis

Nov 2023 - Feb 2024

Python, NumPy, pandas, Matplotlib, Flask, MongoDB, JavaScript, HTML, CSS, Git

- Developed Python scripts to analyze six years of Forex currency data from the Oanda API using NumPy and pandas.
- Performed statistical analysis on Forex pairs, including backtesting and candle pattern detection, to evaluate trading strategies and visualized results with Matplotlib.
- Built an interactive website using Flask and JavaScript to display data and real-time web-scraped economic information.

WORK EXPERIENCE

Engineering Intern

Jan 2025 - Present

Metalab

Vancouver, BC

- Developed and optimized a serverless Lambda function using Python and AWS tools, leveraging Docker for efficient containerization and testing, ensuring seamless integration with the overall project architecture.
- Engineered and optimized the front-end using Next.js and TypeScript, creating a dynamic, responsive user experience while ensuring high performance, scalability, and maintainability.

Non-Resident Dispositions Officer

May 2021 - Aug 2022

Canada Revenue Agency

Vancouver, BC

- Reviewed and verified over 100 Non-Resident Dispositions tax documents, ensuring 100% compliance with the Income Tax Act, resulting in accurate tax reporting, enhancing analytical skills and organization skills.
- Engaged in clear and timely written and verbal communication with a diverse range of clients, enhancing client satisfaction, building strong relationships, and effectively managing inquiries while reducing response times.

EXTRA CURRICULARS

Director of Finance

Mar 2021 - Jun 2023

Student Energy at SFU

Burnaby, BC

- Demonstrated strong leadership and collaboration skills by working with executive members to identify external funding opportunities and managing operational financial tasks, including reimbursements and grant applications.

Business Development Coordinator

Jul 2020 - Apr 2021

SFU Student Marketing Association

Burnaby, BC

- Enhanced written and verbal communication skills by proactively networking to secure industry speakers for marketing workshops and by developing and delivering engaging presentations for students.

SKILLS

Languages: Python, C, C++, Java, Kotlin, Rust, HTML, CSS, JavaScript, SQL, TypeScript

Frameworks/Libraries: Flask, React.js, Nest.js, MongoDB, pandas, NumPy, scikit-learn, Firebase, GraphQL

Tools: GitHub, Git, Postman, Jupyter Notebooks, Visual Studio Code, Android Studio, Microsoft Office Suite