

Anikait Kapur

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TECHNICAL SKILLS

Network Programming | Data Structures and Algorithms | Software Engineering | Linux Development | Machine Learning

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, PHP, Kotlin

Libraries/Frameworks: NumPy, Pandas, TensorFlow, Pytest, PyGame, Open-CV, React, Angular, Flask, JUnit

Tools: SQL, Git, Docker, Visual Studio Code, PyCharm, IntelliJ, Eclipse, Linux, Bash/Zsh, GDB, GCC

PROJECTS

Flappy Bird AI

August 2024

Python, Pygame, Numpy, NEAT-Python, pickle, matplotlib

- Implemented an AI to play Flappy Bird using the NEAT (NeuroEvolution of Augmenting Topologies) algorithm.
- Recreated Flappy Bird using Pygame and integrated it with NEAT to train neural networks to play the game.
- Utilized fitness functions to optimize AI performance.

Expense Tracker

June 2024

Python, Flask, SQLAlchemy, Pandas, JavaScript, React, HTML, CSS, Pytest, SQLite

- Engineered an expense tracker that allows users to track and analyze their daily expenses.
- Integrated an SQLite database using SQLAlchemy.
- Developed Python back-end and a user-friendly UI using HTML, CSS, JavaScript and React.
- Tested the program thoroughly using automated unit and integration tests.

Task Manager App

April 2024

Kotlin, Java, Android SDK, Retrofit, Room, MVVM Architecture, Firebase

- Developed a full-stack task management application with Kotlin.
- Utilized the MVVM architecture to make the codebase more modular and easier to maintain.
- Engineered an easy-to-use Android UI that allows users to add, delete and update tasks on their list.

Simple Reliable Transport Protocol

March 2024

C, Linux, Wireshark

- Developed a reliable transport protocol that adds TCP-like reliability features to UDP using C.
- Built the program in a Linux development environment and tested network reliability using Wireshark.
- Utilized UNIX scripting to develop a testing script for the program.

Mock Co-op Job Board

July 2023 – August 2023

PHP, JavaScript, Oracle, SQL

- Worked in a team to create an intuitive web-based UI using JavaScript to input queries and visualize results.
- Wrote scripts to populate the database and assisted with the development of the query engine.

EXPERIENCE

Volunteer — Beaty Biodiversity Museum

March 2024 - June 2024

Vancouver, BC

- Researched LeafMachine2 to understand its possible applications in the Beaty Biodiversity Museum and communicated with my team.
- Analyzed model performance with different feature engineering techniques and presented my findings.

Website Manager — UBC Rise

September 2022 – May 2023

Vancouver, BC

- Managed the website, assisted the team with any technical errors and ensured that all the devices worked properly for all the meetings and presentations.

Sales Associate — Boutique of Leather

October 2021 - August 2022

Kelowna, BC

- Worked in a team in high-pressure environments and led the store in the manager's absence.
- Communicated with clients to understand their needs and then provided them with the perfect product.

EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Science in Computer Science

Sep 2020 – May 2025