




ROHIN AULAKH

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Education

Simon Fraser University

Expected Graduation: May 2027

Bachelors of Science — Computing Science

Burnaby, B.C., Canada

- Dean's Honour Roll — **GPA: 3.63**
- Courses: Computing Science I, Computing Science II, Data Structures and Algorithms, Systems Programming, Software Engineering, Data Communications and Networking, Computer Systems, Mobile App Programming

Projects

OpenCourt | [Website](#) | [Demo](#) | [Source Code](#)

Android SDK | Kotlin | Firebase

- Developed an Android app providing real-time, crowd-sourced court availability with proximity-based check-in/out
- Managed live data synchronization and user authentication through Firebase Real-Time Database, handled map-based interactions using Google Maps SDK

ERA | [Demo](#) | [Source Code](#)

Python | YOLOv8

- Built a real-time opponent card detection and prediction system for Clash Royale, tracking opponent deck state, elixir availability, and upcoming cards during live matches
- Implemented in Python using locally-trained YOLOv8 model for on-screen model detection through machine learning, and OpenCV for labeling game state in real-time

Jack of All Travel | [Website](#) | [Demo](#) | [Source Code](#)

React | NodeJS

- Assembled a travel planning web application consolidating trip details, shared calendars, and interactive maps for efficient user trip management
- Built interactive, map-based and calendar-integrated features using React, Node.js, Google Maps API, and Google Calendar API

Unix Shell | [Source Code](#)

C

- Created a Unix-like shell supporting internal commands, foreground/background execution, signal handling, and command history
- Built in C using POSIX system calls (fork, execvp, waitpid, sigaction) to manage processes and handle interrupts

Work Experience

Mirani Homes

June 2023 – Sep 2023

Asst. Contractor

Vancouver, B.C., Canada

- Met with inspectors discussing current issues and future plans, worked on getting permits approved and staying up to date with city code
- Communicated between different building crews to understand their timelines, address issues, and schedule between them to progress towards a deadline
- Worked independently to handle small tasks that could cause hindrance and push larger projects off schedule

Technical Skills

Languages: Python, C, C++, JavaScript, Kotlin, HTML5, CSS, XML

Operating Systems: Unix, Android

Frameworks and Tools: Git, Docker, React, Node.js, Firebase, YOLOv8, Android SDK