

# ROHIN AULAKH

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## Education

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### Simon Fraser University

*Bachelors of Science — Computing Science*

**Expected Graduation: May 2027**

*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

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### 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

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### 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

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**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