# Rohin Aulakh

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## Education

**Simon Fraser University**                                     **Expected Graduation: May 2027**
*Bachelor of Science — Computing Science*                              *Burnaby, BC, Canada*

- Dean's Honour Roll — **GPA: 3.63**
- Relevant Coursework: Data Structures and Algorithms, Systems Programming, Software Engineering, Object-Oriented Design, Data Communications and Networking, Database Systems, Mobile App Programming, Artificial Intelligence.

## Projects

**OpenCourt** | *Github* | *Website*                                            **Nov – Dec 2025**
*Kotlin · XML · Android SDK · Firebase Realtime DB · Google Maps SDK · Git*

- Shipped an Android app in a four-person team enabling real-time, crowd-sourced basketball/tennis court availability.
- Implemented live data sync, user authentication, proximity-based check-in/out, and map-based interactions via Firebase Realtime Database and Google Maps SDK, supporting concurrent users with court data across Burnaby and Vancouver.

**ERA - Live Clash Royale Model Detection** | *Github*                              **Oct 2025**
*Python · YOLOv8 · OpenCV · PyTorch · Computer Vision · Git*

- Built a real-time computer vision system in a four-person team during SFU StormHacks 24-hour hackathon to detect and track opponent cards in Clash Royale, maintaining live game state and resource tracking for strategic decision-making.
- Independently trained and deployed a YOLOv8 object detection pipeline using Python and OpenCV, achieving 0.83 mAP@50 and 0.81 precision scores on a labeled dataset, with real-time inference at 15 FPS on live gameplay footage.

**Jack of All Travel** | *Github* | *Website*                                     **Mar – Apr 2025**
*ReactJS · NodeJS · JavaScript · Google Maps API · Google Calendar API · Agile Kanban · Git*

- Developed a full-stack travel planning web app in a four-person Agile Kanban team, supporting collaborative itineraries, shared calendars, and flight, hotel, and restaurant search through interactive maps using the Google Maps API.
- Automated destination search with route visualization, flights & accommodations, and JavaScript unit/integration tests.

**Unix Shell** | *Github*                                                         **Feb 2025**
*C · POSIX · Unix · Process Management · CMake*

- Created a Unix-like shell with internal commands, foreground/background execution, and process lifecycle management.
- Used POSIX system calls (fork, execvp, waitpid, sigaction) to manage concurrent processes and asynchronous interrupts.

## Technical Skills

**Languages**: Python, C, C++, JavaScript, Kotlin, Java, HTML, CSS, XML
**Frameworks and Tools**: Git, Docker, MySQL, ReactJS, NodeJS, Firebase, YOLOv8, Android SDK
**Operating Systems & Networking**: Unix, Android, TCP/IP, Socket programming, Client-server architecture

## Work Experience

**Mirani Homes**                                                                  **Jun – Sep 2023**
*Asst. Contractor*                                                         *Vancouver, BC, Canada*

- Worked directly with city inspectors to secure permits and resolve compliance issues, preventing costly project delays.
- Coordinated schedules across multiple construction crews, resolving conflicts to keep parallel projects on schedule.
- Resolved on-site issues independently and completed blocking tasks to prevent delays to critical project milestones.