AROHA UPRETI

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Education

University of Ottawa **Sep. 2022 – Present**
Bachelor of Applied Science in Computer Science *Ottawa, ON*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Machine Learning
- Operating Systems
- Programming Paradigms
- Database Management
- WWW Structures
- Computer Architecture

Experience

Ross Video **Sept. 2025 – Dec. 2025**
Software Developer Co-op - C++ *Ottawa, ON*

- Implemented major new functionalities for the Carbonite virtual switcher, including MiniMEs and UltraScenes, expanding the switcher's multi-scene capabilities.
- Developed improvements for XPression, adding new features for optimal scene generation.
- Collaborated with senior engineers to debug and resolve critical issues, enhancing stability and user experience.

Ford of Canada **Jan 2025 – May 2025**
Android HMI Intern - Software Developer *Kanata, ON*

- Developed software components with Android for future Fully Networked Vehicle (FNV) systems.
- Utilized strong knowledge in Java and the Android ecosystem to analyze and fix issues reported by the validation team.
- Collaborated with cross-functional teams to ensure seamless and high-quality user experiences by analyzing, debugging, and fixing issues that the validation team reported.

National Research Council Canada - Government of Canada **June 2024 – Dec. 2024**
Security Branch Co-Op Student *Ottawa, ON*

- Assisted with the enforcement of security procedures and standards throughout the whole of NRC for cybersecurity awareness and protection.
- Evaluated with a group of members the safety and security related to SaaS tools and programs.

Projects

Healthcare Appointment Management System (HAMS) | *Java, Android Studio, Google's Firebase* **December 2023**

- Developed a healthcare app enabling users to book, manage, and cancel appointments with secure login and real-time data synchronization via Firebase Authentication.
- Implemented a scheduling workflow with calendar appointment views and patient-to-doctor matching to streamline the booking process.
- Applied software engineering practices from my class SEG 2105, including modular design, version control (Git), and iterative feature development.

Budget Bear | *JavaScript, React Native, OCR* **January 2025**

- Developed a cross-platform app for budgeting, featuring mobile receipt capture with OCR to automatically extract spending from images.
- Built spending analytics and categorized expenses to visualize budget performance and help users monitor financial habits
- Designed UI and data model for budgeting, storage, and receipt processing, demonstrating mobile development and personal finance automation skills.

Technical Skills

Languages: C++, Java, Python, HTML/CSS, JavaScript, React, SQL, Bash, Go
Developer Tools: VS Code, Eclipse, Cursor, Android Studio, Git, ProsgreSQL
Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, WordPress

Extracurricular

Capital Technology Network (CTN) **Nov. 2024 - Sept. 2025**
Communications Team *University of Ottawa*

- Designed and authored several media posts.
- Involved in executive decision making for future event themes, marketing campaigns, and merchandise.
- Communicated out to other communication organizations (Fulcrum, etc.) for various event promotions.