

Arunteja Kuchibhatla

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EDUCATION

Carleton University

Ottawa, Ontario

Bachelor of Computer Science Honors | GPA: 3.94/4.0

Expected Graduation: December 2025

TECHNICAL SKILLS

Programming: Java, Go, Python, C, C++, TypeScript, JavaScript, HTML, CSS, SQL, Node.js, React.js, Express.js, Spring Boot

Tools: Git, MongoDB, Redis, Docker, Kubernetes, SonarQube, Postman, Jira, Agile, AWS, Azure, Vault, Confluence

EXPERIENCE

Royal Bank of Canada

Toronto, Ontario

Software Developer Intern

May 2023 – Dec. 2023

- Boosted open-source developer contribution by **15%** by developing an automated user clearance authentication plugin. Leveraged Backstage, React and TypeScript for the UI and Go to communicate with auth-security APIs.
- Automated the integration of Azure AD user entities to allow Single Sign On (SSO) for over **4000** developers by developing automation scripts in TypeScript to parse entity metadata using regex to compare against a user's SSO token.
- Reduced latency of Single Sign On (SSO) authentication endpoints by **50%** by optimizing PostgreSQL database queries, introducing rate limiting and reducing payload size for authentication APIs.
- Refined UX by engineering React components to dynamically showcase consumption insights into core InnerSource APIs.

Tech stack: TypeScript, Go, React, Node.js, Backstage.io, Docker, Kubernetes, PostgreSQL, Git

PERSONAL PROJECTS

Vibe-ify (Music Player)

[GitHub Link](#)

- Developed a **C++** based music player implementing the Model view controller (MVC) design pattern, enabling users to create and manage playlists of songs with multiple user profiles.
- Deployed Valgrind for exhaustive memory leak detection and utilized multithreading with pthreads to orchestrate concurrent audio playback, optimizing performance and memory utilization within the music player.

Nerd Express (Uber Clone)

[GitHub Link](#)

- Engineered a C++ ride hailing app by applying polymorphism and multiple inheritance to allow for a modular design.
- Developed custom data structures by leveraging HashMaps and Linked lists to optimize inter-class interactions and memory management through memory pooling and object pooling.

LEADERSHIP

Teaching Assistant, Data Structures and Algorithms in Java

Ottawa, Ontario

Carleton University

Sep. 2022 – Present

- Counseled students on runtime and space complexities of their programs through regular office hours and conducted workshops to teach various data structures.

Software Developer Volunteer

Remote

Conscious Planet, 'Save Soil' Movement ([Website Link](#), [GitHub Link](#))

May 2022 – Present

- Raised awareness on soil degradation by developing an automated email bot in **Python** which scrapes the public domain for government officials' contact information and uses regular expressions to parse their email ids, names, and position.
- Implemented secure account login and email sending functionality by implementing the **SMTP** and **MIME** protocols to ensure seamless communication with Google's SMTP server.

Technical Mentor

Toronto, Ontario

RBC Summer Tech Labs ([Link](#))

June 2023 – Aug. 2023

- Managed a team of **5** high school developer interns through 1on1 sessions and code reviews using Git & GitHub. Taught software design patterns such as MVC and debugging methodologies like unit testing and performance profiling.