Arunteja Kuchibhatla

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Education

Carleton University Ottawa, Ontario
Bachelor of Computer Science Honours | GPA: 4.0/4.0 **Expected Graduation:** December 2025

Technical Skills

Languages: Java, Python, TypeScript, C++, C, HTML/CSS
Frameworks: Spring WebFlux, Mockito, React.js, Node.js, JUnit, AWS CDK
Developer Tools: Git, Azure, Docker, Unix/Linux, Kubernetes, Jenkins, AWS, Postman, Jira, VS Code

Work Experience

Software Engineer Intern May 2024 - August 2024
Royal Bank of Canada (RBC) - Financial Data Exchange (FDX) Team *Toronto, Ontario*

- Improved user experience by developing secure RESTful APIs in Java (on **Unix**/macOS) leveraging JSON Web Token (JWT) authentication, benefiting **over 10 million** clients using Open banking services.
- Engineered a highly scalable, **distributed Spring WebFlux** service to concurrently initialize financial data exchange services, improving user experience by reducing application startup time **by 50% (4s to 2s)**.
- Automated testing by increasing JUnit test coverage of core FDX services to **100%** using Mockito, resulting in a **50%-time reduction** for Quality Assurance.

Software Engineer Intern May 2023 - December 2023
Royal Bank of Canada (RBC) - DevOps Engineering Team *Toronto, Ontario*

- Spearheaded development of a **distributed**, scalable microservice onboarding system for an internal developer portal (on **macOS**), increasing microservices onboarded by **35% QoQ** using **React**, TypeScript & Entra SSO.
- Replaced inefficient single API calls to Entra ID with Python ETL pipelines, cleaning & structuring data to improve UX and cutting processing time by **40% (4s to 2.4s)**, improving user experience for RBC developers.
- Automated DevOps CI/CD pipelines using Jenkins, Docker and Openshift 4, cutting deployment time by **50% (20 min - 10 min)** across multiple data centers.

Data Structures and Algorithms Teaching Assistant September 2022 - Present
Carleton University *Ottawa, Ontario*

- Conducted regular office hours & lectures for **600+** students to solve complex algorithmic problems using Java.
- Led collaborative algorithms review sessions, improving problem-solving skills and resulting in **200+** A+ grades.

Projects

RaDoTech Health Monitoring Simulation | *C++, Qt, SQLite, Git* (Private GitHub) (Demo Video)

- Developed a scalable health monitoring system with state-driven device logic (READY, DISCONNECTED, ERROR) and real-time updates using the Observer design pattern.
- Designed and implemented recommendation algorithms to analyze health data and provide actionable insights by comparing measured values to baseline metrics, generating personalized insights.
- Leveraged SQLite for managing user profiles and health data, ensuring scalability for multiple users and efficient storage of historical records.

Extracurriculars

Web Developer Volunteer May 2024 - Present
Carleton University Blueprint *Ottawa, Ontario*

- Enhanced Blueprint's website's UX by refactoring code to lazy load assets, reducing asset load time by **80% (5s to 1s)** and ensuring a lag-free website experience for **over 1000** users.
- Created standardized React project card components, promoting code reuse in the club for **over 25** developers.

Developer Volunteer May 2022 - Present
Conscious Planet – Save Soil Movement *Remote*

- Developed a Python web scraper & used RegEx to parse contact information of **200+** government institutions.
- Created an automated system to send emails via the Save Soil website's outreach form, reaching **100+** officials.