

Abhay Ariyappillil

Ottawa, ON | [Website](#) | [LinkedIn](#) | [GitHub](#)

SUMMARY

4th year Software Engineering student at the University of Ottawa

Skilled in modern programming with Angular, Spring Boot, Bash, Python, Java, Elixir and Kotlin

Experience with CI/CD pipelines, embedded systems, containerization, and build system optimization

EDUCATION

University of Ottawa

BASc Software Engineering

Ottawa, ON

Sep 2022 – Apr 2026

- Dean's Honor List – 2022, 2023, 2024, 2025
- Current CGPA: 9.54

EXPERIENCE

Embedded Build and Pipeline Developer Co-op

May 2025 – Aug 2025

Ford Motor Company

- Designed and implemented an artifact management framework for multiple Petabytes of data
- Spearheaded containerization and build environment standardization for a component build system
- Collaborated with cross-functional hardware, firmware and validation teams to ensure seamless integration

Software Build and Integration Engineer Co-op

Sep 2024 – Dec 2024

Ford Motor Company

- Developed and maintained parts of the CI pipeline across Jenkins and Github Actions
- Migrated storage systems for a company-wide component CI Pipeline
- Optimized build scripts to improve build times and readability

Build Systems Software Engineer Co-op

Jan 2024 – Apr 2024

Ford Motor Company

- Contributed to CI pipeline by maintaining Jenkins jobs and creating new builds
- Completed build releases and created documentation across Github and Jenkins
- Optimized codebase to achieve faster build times in the packaging layer

Member, Engineering Faculty Council

Apr 2023 – Apr 2024

University of Ottawa

- Elected member of the governing council for the engineering department
- Engaged in discussions on critical issues, including the development and enhancement of courses
- Endorsed and voted on innovative initiatives aimed at enhancing faculty development and resources

PROJECTS

Alien Pet Health AI Pipeline | *Python, Scikit-learn, TensorFlow, Keras, Pandas*

- End to end classification pipeline spanning data preparation, feature preprocessing, and model development
- Classical ML and deep learning approaches with cross validation, regularization, and F1/ROC-AUC evaluation

Hospital Management System | *Spring Boot, Kotlin, Thymeleaf, Docker*

- A Spring Boot-Kotlin Server and a Thymeleaf Client for Patient Management
- Built under enterprise design principles with layered architecture, dependency injection, and modularity

TECHNICAL SKILLS

Programming Languages: C, C++, Bash, Java, Kotlin, Elixir, Python

Web Development: Angular, React, Spring Boot, Thymeleaf, REST APIs, JavaScript, CSS, HTML

Database Management: Firebase, Firestore, MySQL, SQLite, MongoDB, PostgreSQL

DevOps: Github Actions, CircleCI, Jenkins, Docker, Kubernetes

Embedded Development: FreeRTOS, Bitbake, Yocto Project

Repository Management: Nexus, Artifactory, GCP

Operating Systems: Linux, Windows, MacOS

Developer Tools: Confluence, Jira, Gradle, Git, Jupyter Notebook