

Aditya Keerthi

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Education

University of Waterloo, Honours Software Engineering (BSE), Co-op Sept 2022 - Apr 2027 (expected)

- President's Scholarship of Distinction (\$2,000), Colonel Hugh Heasley Entrance Scholarship (\$10,000)
- Relevant Coursework: Object Oriented Programming, Differential Equations, Software Engineering Methods, Statistics

Experience

Litespace

Toronto, ON

Software Engineer Intern

Sept 2023 – Dec 2023

- Technologies used: TypeScript, MongoDB, GraphQL, RabbitMQ, Pulumi, PostgreSQL

Toyota Canada Inc

Toronto, ON

Software Applications Developer

May 2023 – Aug 2023

- Upgraded a [Healthcheck API](#) using **Java**, **Spring**, **GraphViz**, **MySQL** and **HtmlUnit** to visualize **10 000+** server connections through graph traversal; Deployed proxy APIs in IBM's API Connect using **OpenAPI** to reduce latency by **30%**.
- Created a backend service to streamline vehicle data using **Java**, **Apache PDFBox**, increasing efficiency for dealers' sales.
- Enhanced security of APIs using **Python** to build a **Regex-based** middleware, decreasing malicious requests by **100%**.
- Developed a batch client using **Java**, **MySQL** to maintain ServiceNow tickets on server crashes, lowering latency by **75%**.
- Led the development of a data migration script using **Python**, **Selenium** to verify **500+ MySQL** rows through a web app.

Feroot (YC W21)

Remote in Canada

Software Engineer Intern

Aug 2022 – Sept 2022

- Implemented front-end features using **Vue.js** and learned **Agile development** through sprints with the dev team.
- Developed and automated unit tests using **TestingLibrary** and **Jest**, achieving **~80%** test coverage on the codebase.

Feroot (YC W21)

Remote in Canada

Software Engineer Intern

July 2021 – Sept 2021

- Deployed user documentation using **DocsifyJS**, **Jenkins**, **Docker**, and **AWS**, providing technical support for **175+** clients.
- Developed software that reports external scripts tracking mouse movements on the front-end using **JavaScript**.
- Implemented a tool that tracks all domains connected to a company by performing a reverse IP lookup using **Node.js**.

Projects

NeuroPET-M – Top 22 Science Fair Project in Canada

github.com/adityakeerthi/neuropet-m

- Developed a diagnostic tool that creates a 3D widget based on multiple PET scans, using **Cython**, **OpenCV**, and **Plotly**.

NoDeSQL – A Decentralised NoSQL Database built on **IPFS**

github.com/adityakeerthi/nodesql

- Developed a database service that allows users to manage a NoSQL database in a **private**, **trustless** manner, using **IPFS**.

STEMComp – A Secure, Scalable, Full-Stack Web Application

github.com/adityakeerthi/stemcomp

- Implemented a scalable backend with auth middleware using **Node** and **Express**, serving **250+** concurrent requests.
- Designed an effective schema for the database and stored **300+** documents in a **NoSQL** database using **Firestore**, **Node**.

Skills

Languages/Frameworks: Python, Java, Spring, C, C++, JavaScript,, Node, React, Vue, Rust, Solidity, SQL, PostgreSQL

Technologies: Git, Docker, AWS, Jenkins, Github Actions, OpenCV, GraphViz, Jest, Express, Flask, Azure DevOps, Postman