

Aditya Keerthi

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Experience

Feroot Security, QA Engineer Intern

Aug 2022 – Sept 2022

- Developed and automated unit tests using **TestingLibrary** and **Jest**, achieving **~80%** test coverage on the codebase.
- Implemented front-end features using **Vue.js** and learned **Agile development** through sprints with the dev team.
- Participated in **Scrum**, building **communication** skills by presenting **creative** ideas to colleagues.

Feroot Security, Software Engineering Intern

July 2021 – Sept 2021

- Deployed user documentation using **DocsifyJS**, **Jenkins**, **Docker**, and **AWS**, providing technical support for **75+** 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**

University of Waterloo, Research Intern

Nov 2020 – June 2021

Project – **NeuroPET-M: A Multimodal PET Scan Platform as a Novel Diagnostic Tool for Neurodegenerative Diseases**

- Conducted research on neuroimaging and improving diagnosis on diseases such as Alzheimer's and Parkinson's.
- Developed a diagnostic tool that produces a multimodal PET scan in 3-dimensions opposed to normal PET scans.

Projects

NeuroPET-M, Top 22 Science Fair Project in Canada

github.com/adityakeerthi/neuropet-m

- Created software that maps **multiple biomarkers** in the brain and **efficiently** visualizes it for doctors and neurologists.
- Used concepts such as **multithreading**, **image processing**, and **color difference** to reduce runtime to approx. **2 min**.
- Implemented **image processing** methods with **Python** and **Plotly** to effectively visualize biomarkers in the 3D brain.

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**.
- Built multiple API endpoints to mimic a document-based NoSQL database and its methods, using **Node**, **Express**.

PeerPool – An Autonomous, Secure Ride-Sharing App

github.com/adityakeerthi/peerpool

- Developed an autonomous ride-sharing app with virtually no middleman fees, using **Ethereum**, **React**, and **Node**.
- Built the backend infrastructure and React components for driver data using **Node**, **Express**, **IPFS**, and **React**.

DeTrace – A Secure Contact Tracing App built with Ethereum

github.com/adityakeerthi/detrace

- Developed a secure contact tracing app that would improve the ability to stop the spread of COVID, using **Ethereum**.
- Implemented API endpoints, React components, and a BFS algorithm to detect COVID, using **Node**, **React**, and **Solidity**.

Skills

Languages: Python, C, C++, JavaScript, TypeScript, Go, Rust, Solidity

Technologies: Git, Docker, Node, React, Vue, AWS, Jenkins, Github Actions, TestingLibrary, Jest, Express, Flask, Firebase

Education

University of Waterloo, Honours Software Engineering (BSE), Co-op

Sept 2022 - Apr 2027

- President's Scholarship of Distinction, Colonel Hugh Heasley Entrance Scholarship
- Developer on [ReviewKit](#) – Maintain full-stack of the application using **Node**, **React**, and **AWS**