Jatin Suri

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Experience

Red Hat

Software Development Engineer Intern
- Revamped the application logs data model of OpenShift, Red Hat's Kubernetes platform, into the innovative Open Telemetry framework.
- Enhanced Red Hat's Cluster Log Forwarder by introducing new, versatile API schemas that allow the logs to be sent to systems that use alternate encoding.
- Accelerated runtime performance by 10% through the utilization of Go and Vector Remap Language in project development.
- Devised and executed comprehensive Ginkgo tests to ensure the API's autonomy from the OpenShift platform, resulting in a 10% reduction in time to production.

University of Maryland, Baltimore County Biology Department

Undergraduate Research Assistant
- Collaborated with UMBC Biotechnology students to develop a cross-platform application written in C++ and QT for viewing electron microscopes.
- Improved the efficiency of the application by migrating the image processing backend to the native QT Multimedia class, which is an essential module that provides a rich set of QML types and C++ classes to handle multimedia content.
- Updated the backend to use a modern QT class, allowing current hardware to utilize the application.

Projects

Discord Bot - Python, Interactions.py, Discord.py
- Developed a responsive Discord A.I. bot that generates gifs and predicts outcomes of events based on user input to create a user-friendly experience.
- Incorporated modern Python API wrappers (Discordpy and Interactionspy) to create seamless interaction and collaboration between multiple users.
- Utilized Git to manage version control and hosted the API on Oracle Cloud.
- Integrated Tenor API, a real-time gif generation program that is used by companies such as Discord and WhatsApp.

Flash Cards - C++, Makefile
- Constructed an interactive Flashcard program that implements adaptive teaching by leveraging previous patterns to target weaknesses for optimal learning.
- Facilitated efficient insertion and deletion by storing the data in a doubly linked list to allow for seamless traversal through the data

Education

University of Maryland Baltimore County   Baltimore, MD

B.S. in Computer Science   2021 – 2025

Relevant Courses

C++, Python, Data Structures, Discrete Structures, Linear Algebra, Calculus, Physics, Compiler, Automata Theory

Technical Skills

Languages

C++, C, Python, Go, JavaScript, HTML, CSS, VRL

Tools and Libraries

Kubernetes, Git, Docker, Ginkgo, ReactJS, NextJS, CAD Modeling, Autodesk Fusion 360 and Inventor, macOS, Linux, Windows