Jatin Suri

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Experience

Red Hat   Summer 2023 – 2024

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.
- Developed a statistics view for the OpenShift Logging Console, integrating Grafana Loki's HTTP Statistics API to display query performance metrics in React
- Implemented Grafana's Volume API integration, enabling users to estimate query duration and file engagement before execution, reducing the load on Red Hat's query ingesters

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 bot on Oracle Cloud.
- Integrated Tenor API, a real-time gif generation program that is used by companies such as Discord and WhatsApp.

Campus-LFG – React, CSS, SQL, Node
- Engineered a real-time matchmaking system for College students using React hooks and NodeJS, implementing an Elo-based algorithm to ensure balanced player pairings across various games
- Built a full-stack application with real-time messaging functionality and support for dynamic group creation, enabling smooth user interactions and efficient collaboration.

Education

University of Maryland Baltimore County   Baltimore, MD

B.S. in Computer Science   2021 – 2025

Relevant Courses

Algorithms, Artificial Intelligence, Systems, Compilers, Computer Architecture, Data Structures, Discrete Structures, Automata Theory, Linear Algebra, Calculus, Physics, Compiler, C++, Python

Technical Skills

Languages

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

Tools and Libraries

Kubernetes, Elasticsearch, Git, Docker, Ginkgo, ReactJS2, CAD Modeling, Autodesk Fusion 360 and Inventor, macOS, Linux, Windows