Jatin Suri

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Experience

Red Hat   Summer 2024

Software Development Engineer Intern
- 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 into the OpenShift Logging Console, enabling users to estimate query duration and file engagement before execution, optimizing performance and reducing strain on Red Hat's query ingesters.

Red Hat   Summer 2023

Software Development Engineer Intern
- Revamped the application logs data model of OpenShift, Red Hat's Kubernetes platform, into the decentralized 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 alternative encoding.

University of Maryland, Baltimore County Biology Department   Summer 2022

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's API, a real-time gif generation program that is used by companies such as Discord and WhatsApp.

Campus-LFG – React, CSS, SQL, Node
- Designed and managed a MySQL database for Campus LFG, ensuring optimized data storage and retrieval for user profiles, groups, and messaging.
- Engineered real-time messaging functionality with Node.js and WebSocket to enhance user engagement on Campus-LFG.

Education

University of Maryland Baltimore County   Baltimore, MD

B.S. in Computer Science   2021 – 2025

Relevant Courses

Cloud Computing, Database Management, Algorithms, Artificial Intelligence, Systems, Compilers, Computer Architecture, Data Structures, Discrete Structures, Automata Theory, Linear Algebra, Calculus, Physics, Compiler

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