

Viraj Sabhaya

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EDUCATION

The University of Texas at Arlington

Graduation: May 2024

Bachelor of Science in Computer Science

- Received the **Nokia Outstanding Professional Computer Science Student Award** from the Department of Computer Science and Engineering
- Related Courses:** Object-Oriented Programming, Data Structures and Algorithms, Operating Systems, Computer Networks, Artificial Intelligence, Software Engineering, Software Testing & Maintenance, Database Implementation, Autonomous Robot Programming, Information Security

PUBLICATIONS

IEEE Big Data Services - MLN Visualizer: Interactive Visualization of Graphs and Multilayer Network Analysis Results

EXPERIENCE

Software Developer | IT Lab, University of Texas at Arlington

September 2022 – Present

- Developed analysis module for complex Multi-Layer Network (MLN) datasets**, overcoming challenges in studying entities. Resulting in identifying and classifying communities with 85% accuracy.
- Uncovering underlying patterns within MLN data, results in an improvement in pattern detection efficiency.
- Developed a Visualization module** with interactive elements like hovers and ledgers, **enhancing user experience** and resulting in an **80% increase in clarity** and actions with the analyzed MLN data structures.

Software Engineering Intern | Securonix

June 2022 – August 2022

- Contributed to the design, development, and maintenance of Securoni's NextGen SIEM 2.0 Technology, resolving real-time customer issues on the Securonix cloud.
- Conducted automated tests** using Cypress on the SNYPR software, ensuring 100% successful execution of test cases.
- Learned and applied big data technologies such as Kafka, and Spark on the DataSource project, leading the development of an automation tool for the QA team. Resulted in a 90% reduction of the team's operational load.

Student Lab Assistant | Office of Information Technology, UT Arlington

January 2021 – April 2022

- Maintained critical IT infrastructure**, including computers, kiosks, and printers across 4+ computer labs, playing a key role in ensuring seamless operational support for over 1,000 students and faculty.

SKILLS

- Programming Languages:** Python, HTML, CSS, Javascript, SQL, C++, Java
- Technologies & Tools:** Node.JS, MongoDB (NoSQL), Jira, Tableau, React, Docker, Github, Flask, AWS
- Soft Skills:** Strong communication, problem-solving, and Innovative skills

PROJECTS

Load-N-Ask | OpenAI, LLM, FAISS, Langchain | **Achieved 1st place for best use of Streamlit at HackUTA 2023**

- Created a Streamlit web app utilizing OpenAI's API to fetch answers from uploaded PDF/CSV documents.
- Optimized data storage and reduced costs by implementing chunking and vector conversion techniques, resulting in a 50% reduction in storage requirements.

ERS, BECHT Web-Dashboard | C#, .NET Core, Telerik, Microsoft SQL Server Management Studio

- Developed a web application, to mitigate risks minimizing health, safety, and environmental accidents. The application implements an Equipment Reliability Strategy (ERS) to effectively identify failure mechanisms.
- Facilitated efficient client and site management by developing an intuitive user interface for the addition and tracking of industrial equipment and its maintenance history.

Rastor Graphic Editor | OpenCV, Mouse event handling, Image manipulation

- Developed an editor enabling tools such as Eyedropper, Crop, Pencil, and Paint Bucket for image manipulation.

Arlington Sprouts Database Management | MySQL, Apache web server, XAMPP

- Developed a comprehensive database for Arlington Sprouts Store and enhanced operational efficiency by creating an intuitive web interface, facilitating seamless interaction with the database.

LEADERSHIP AND INVOLVEMENT

Junior Developer | MOBI Software Development Club

December 2023 - Present

- Specialize in social coding, guiding members in utilizing GitHub for MOBI Social Coding, actively contributing to projects led by a Senior Developer, and showcasing my skills through YouTube workshops on passion projects.

Tech Officer | ACM UTA

October 2023 - Present