VIRAJ SABHAYA

[in] vsabhaya23 | 📱 682-704-1967 | 🌐 virajsabhaya23.github.io | ✉ sabhayaviraj23@gmail.com | ○ virajsabhaya23

Skills

- **Programming Languages:** C#, Python, Javascript, C, Java   **Soft Skills:** Problem-solving, Innovating, Teamwork, Communication skills
- Kubernetes, Docker, Terraform, Azure DevOps, AWS (Lambda, DynamoDB), CI/CD, Agile, JIRA, Linux, SDLC, ETL, TFS
- REST API, MySQL, MongoDB (NoSQL), XML, Cypress, Postman, SoapUI, Web Development (HTML, CSS), TypeScript, Angular, React

Experience

Software Engineer	*Altera Digital Health*	**05/2024 - Current**

- Led **cross-functional collaboration** with Business Analysts and QA teams to refine requirements, implement unit testing strategies, and achieve a **95%+ pass rate**, significantly **minimizing post-deployment defects** and ensuring stability.
- Spearheaded **end-to-end development** and optimization of healthcare data (**FHIR HL7**, **ICD**, **Multum**) processing workflows using C#, .NET Core, APIs, and DB re-indexing, ensuring on-time and successful monthly and quarterly releases.
- Developed expertise in creating clear and detailed release notes for clients, enhancing understanding of **technical documentation**.
- Drove architectural enhancements, **optimizing resource utilization** and reducing server count by **60%**, resulting in improved scalability and significant cost savings on maintenance.

Software Engineer	*IT Lab*	**09/2022 - 05/2024**

- Achieved an 85% accuracy rate in identifying and classifying communities within complex Multi-Layer Networks (MLN) datasets, by **developing the analysis module**.
- Uncovered underlying patterns within MLN data, leading to a **75% 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 with the analyzed MLN graphs.

Software Engineer, Intern	*Securonix*	*Addison, TX, USA* **06/2022 - 08/2022**

- Contributed to NextGen SIEM Technology by developing automated tests using Cypress for the SNYPR software. This helped resolve problems for customers using Securonix's cloud services.
- Implemented big data technologies like Apache **Kafka** and Apache **Spark** for the Datasource project and led the development of an automation tool for the QA team, resulting in an **80% reduction of the team's operational load.**

Education

Bachelor of Science in Computer Science	**University of Texas at Arlington**

- **Relevant Coursework:** Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Software Testing & Maintenance, DBMS, Artificial Intelligence, Machine Learning, Computer Networks, Autonomous Robotics, Information Security, Fundamentals of Software Development

Projects

Load-N-Ask (HackUTA Hackathon)

- Created a Streamlit web application using OpenAI's API to fetch responses from uploaded PDF/CSVs.
- **Optimized data storage** by implementing chunking and vector conversion techniques, **resulting in a 75% operational cost reduction**.
- Utilized: OpenAI, LLM, FAISS, Langchain, Streamlit, Source Control (Git)

Equipment Reliability Strategies web dashboard (Senior Design)

- Web application development, to mitigate risks minimizing health, and safety, by identifying failure mechanisms effectively using ERS.
- Facilitated efficient client and site management by developing an intuitive user interface for adding and tracking industrial equipment and its maintenance history (**designed and implemented database**).
- Utilized: ASP.NET MVC, ASP.NET Core, ASP.NET Web Forms, Telerik, Microsoft SQL Server, Figma, Lucidchart

Show Me Money (Computer Vision)

- Developed an application that aims at identifying United States coins (penny, nickel, dime, and quarter) within the image provided to determine their total monetary value, using techniques like **Canny edge detection**, and **contour detection**.   Utilized: OpenCV, CMake

Leadership

- **Junior Developer (MOBI Software Development Club):** Mentored junior engineers on best practices for GitHub collaboration.
- **Tech Officer (ACM UTA):** Developing the HackUTA website to promote a hackathon accessible and open to everyone.

Achievements & Publications

- **Featured in Times Square, NYC:** Won 1st prize for the development of LinkLeap: URL Shortener among 300+ participants   **(02/2024)**
- **HackUTA:** Secured 1st place for the **Best use of Streamlit** by **Major League Hacking (MLH)**   **(10/2023)**
- **Nokia Outstanding Professional CS Student:** Received academic excellence award from Computer Science department   **(2023, 2024)**
- **IEEE BigDataService:** MLN-Visualizer: Interactive Visualization of Graphs and Multilayer Network Analysis Results   **(07/2023)**