

# VIRAJ SABHAYA

[in vsabhaya23](#) | [682-704-1967](tel:682-704-1967) | [virajsabhaya23.github.io](https://github.com/virajsabhaya23) | [sabhayaviraj23@gmail.com](mailto:sabhayaviraj23@gmail.com) | [virajsabhaya23](#)

## Skills

**Languages:** Python, Javascript, HTML, C, SQL, Java  
**Mobile Development:** Swift, Flutter  
**Project Management:** Agile, JIRA, Confluence, Git  
**Testing:** JUnit, Mocha, Cypress  
**Web Development:** React JS, React Native, Node JS, RESTful API, Webpack  
**Database Technologies:** SQLite3, MySQL, MongoDB  
**Development Tools:** Jenkins, Hadoop, AWS Lambda, Docker, Tableau  
**Soft Skills:** problem-solving, teamwork, attention to detail, communication skills

## Experience

- Software Engineer** IT Lab *Arlington, TX, USA* **09/2022 - Current**
- 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 Kafka and 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**.
- Student Lab Assistant** Office of Information Technology *Arlington, TX, USA* **02/2021 - 03/2022**
- Maintained critical IT infrastructure**, including computers, kiosks, and printers across 5+ labs, playing a key role in ensuring seamless operational support for over 1000 students and faculty.

## Education

- Bachelor of Science in Computer Science** University of Texas at Arlington **Graduation: May 2024**
- 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 (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, Python, Streamlit, 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.
  - Utilized: C#, .NET Core, 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: C++, OpenCV, Git, CMake, GNU

## Leadership

- Junior Developer (MOBI Software Development Club):** Mentoring members in GitHub utilization for collaborative coding, and delivering impactful YouTube workshops on personal passion projects.
- Tech Officer (ACM UTA):** Developing the HackUTA website to promote a hackathon accessible and open to everyone.

## Achievements

- 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 award from Computer Science department for research contribution **(04/2023)**