

Arlington, Texas, 76010

EDUCATION

University of Texas - Arlington

Bachelor of Science in Computer Science

Arlington, Texas

Jan. 2020 - Dec. 2023

TECHNICAL SKILLS

Languages: Python, Java, C/C++, HTML, JS, Rust, Node.js, SQL, CSS, Swift

Developer Tools: VS Code, Android Studio, Figma, Adobe XD, Xcode, gcc/g++, GitHub, Raspberry Pi, Linux

Technologies/Frameworks: Git, Alpha Vantage API, JavaFX, NumPy, Pandas, MatPlotlib, Scipy, Sklearn, Seaborn, OpenCV, nltk, Pyvis, NetworkX, Plotly, Bokeh, iGraph

PROJECTS

Visualization for MultiLayer Network | Python, Plotly, NetworkX, Bokeh, MatplotLib, Numpy, Pandas On-going

- Developing algorithms to visualize Layers generated, in the form of nodes(Vertices), and their edges(Relations)
- This module is also able to visualize the analyzed results from the generated layers, in the form of Community Network Graph Visualization.
- Allows users to easily explore the node interactions and explore community structure of a network

DataSource | JS, python, cypress, Selenium at SECURONIX

Aug. 2022

- Conducted successful automation tests on Threat detection software.
- Created an automation tool to convert CSV to required JSON libraries

Web Poker | Java, HTML, CSS, JavaScript | ♠ github.com/virajsabhaya23/WebPoker_8.git Feb. 2022 - May 2022

• A web application using OOPs concepts, HTTP server, and WebSockets

Fat32 User Shell | C/C++ | \cap https://github.com/kmosoti/FAT32-User-Shell.git

April 2022

• A user space shell application that can interpret a FAT32 system image.

Arena Allocator | C/C++, LinkedList | \bigcirc github.com/virajsabhaya23/ArenaAllocator.git

March 2022

• Implemented a Memory Allocator for my Operating Systems class.

• Wrote algorithms for FIRST_FIT, NEXT_FIT, WORST_FIT and BEST_FIT algorithms

Fractal, Image computation | C/C++, Operating System | github.com/virajsabhaya23/Fractal.git

Feb. 2022

• Implemented threads to compute the Mandelbrot set of images.

Learned how threads reduce the amount of time for execution and make the process faster

Personal Web Portfolio | HTML, CSS, React, Node, JavaScript

Feb. 2022

• https://virajsabhaya23.github.io/VSwebPortfolio/

Stock Management System | Java, GUI, JavaFX, APIs | SMS

Nov.2021 - Dec. 2021

- A GUI application for managing one's portfolio and for investments.
- Using the Alpha Vantage API to keep track of real-time stock details.

EXPERIENCE

Student Research Assistant

October 2022 - Present

UTA IT Lab, UTA

Arlington, Texas

• Developing Visualization module to visualize results of big data and of analyzed data.

Software Engineering Intern

June 2022 - August 2022

Securonix

Dallas, Texas

- Designed, developed and maintained Securonix's NextGen SIEM 2.0 Technology.
- Worked on Securonix's cloud to debug real-time customer issues and solve them.
- Worked on big data technologies KAFKA, SPARK, and MYSQL on the DataSource Project.

Student Research Assistant

Student Lab Assistant

April 2022 - June 2022

UTA IT Lab. UTA

Arlington, Texas Jan. 2021 – April 2022

Office of Information Technology, UTA

Arlington, Texas

- Assisted in new lab installations or reconfiguration, as well as receiving and redistributing supplies.
- Guided Students and Professors with printing, logins, and various software related issues.

EXTRACURRICULAM

Engineering Student Council (ESC.UTA)

Feb. 2022 - Aug. 2022