

Sam Abraham

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Objective

Software Engineer with a Bachelors Degree from the University of Texas at Dallas. Proven success in frontend development, backend development, and software testing using Java, C/C++, Python, and SQL. Adept at applying academic knowledge in real-world scenarios. Eager to leverage skills in an innovative and dynamic tech environment in a internship or full time role.

Education

THE UNIVERSITY OF TEXAS AT DALLAS, Richardson, Texas
Bachelor of Science in Software Engineering, **GPA 3.6/4.0** – Dean's List

Graduation Date
December 2023

Technical Skills

Oral Languages : English, Malayalam, Spanish
Languages : Java, C/C++, Python, SQL, MIPS, R
Operating Systems : UNIX, Linux, Mac OS, Windows
Relevant Courses : UNIX, Operating Systems, Networks, Database Systems, Graphic Design, Software Testing
Machine Learning, Project Management, Artificial Intelligence, Computer Architecture

Personal Projects

Cisco Web Application **React** **Summer 2022**
Successfully developed a user-centric website showcasing network and service information, employing React for front-end architecture, Node.js for backend functionality using JavaScript and HTML, and used WebSocket to display packet latency.
Skills used: React, Node.js, JavaScript, HTML, IPify API, Web Sockets, GitHub

Lyft Car Service Application **Python** **Summer 2023**
Developed a Python-based car service portal, enhancing a UML class diagram representing system architecture, adding features, and implementing rigorous unit testing to ensure robust functionality and reliability.
Skills used: Python, Software Architecture, Refactoring, Unit Testing, GitHub

JPMorgan Chase Rewards Application **Java** **Summer 2024**
Completed a simulation focused on the process of completing an engineering ticket for a system in the credit-card rewards department of JPMorgan Chase & Co. Developed a Java-based system for converting credit card cash rewards into miles points, and miles points to cash rewards. Implemented a comprehensive test suite to ensure optimal system functionality
Skills used: Java, Class Creation, Unit Testing, GitHub

Academic Projects

Library Management System **SQL** **Fall 2022**
Developed a Java-based GUI interface for a database host application, enabling efficient book searches with diverse filters and seamless book checkout for borrowers. Implemented a robust management system to track borrowers, borrowed books, and manage fines, ensuring streamlined library operations.
Skills used: Java FX, Java, SQL, Databases, Frontend Development, Backend Development

Apple Stock Prediction **Machine Learning** **Spring 2023**
Developed a robust stock prediction algorithm leveraging machine learning techniques, including RNN for future price forecasting based on historical data, and employing K-Means Clustering and KNN to uncover patterns within stock price data, achieving enhanced accuracy validated through Mean Squared Error analysis.
Skills used: K-Means Clustering, Recurrent Neural Network, K-Nearest Neighbor, Machine Learning, Python

SNORT GUI Application **Full-Stack Development** **Fall 2023**
Successfully developed a GUI application for Snort IDS, integrating Python (Tkinter) for the interface and VsCode to streamline Snort command line operations. Orchestrated the setup of Virtual Machine (VirtualBox) for rigorous GUI testing using traffic generators (Nping, Zenmap, Hping3).
Skills used: Snort, Command Line, Python, Tkinter, Virtual Machine, Traffic Generators, Testing, GitHub

Work Experience

Technical Expert **Apple NorthPark Center, Dallas, Texas** **September 2022- Present**
Expertly diagnose and isolate software and hardware issues in devices, maintaining composure while troubleshooting to deliver efficient solutions such as software resets, hardware repairs, or upgrades for enhanced performance.