DEV PATEL

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EDUCATION

Texas A&M University
Aug 2021 – Dec 2024

Bachelor of Science: Computer Science - Honors, Minors in Stats and Mathematics; GPA: 3.83, Dean's Honors Award
Relevant Coursework: Analysis of Algorithms, Data Structures and algorithms, Machine Learning, Artificial Intelligence, Operating Systems, Programming Languages, Computer Organization, Intro to programming design concepts, Discrete Math
Campus Involvement: Aggie Competitive Programming Club, Aggie Coding Club, TAMU Cyber Security Club, Google SDC
Online Courses: Coursera Machine learning specialization, Udemy data science bootcamp, Udemy mastering DSA; LinkedIn C++ Developer

SKILLS

Programming Languages: C/C++, Python, Java, JavaScript, HTML/CSS, SQL
Tools/Technologies: MySQL, Git, JIRA, Linux, Android Studio, REST APIs, OOP, Amazon Web Services, PostgreSQL

EXPERIENCE

Software Engineering Intern, 4C Consulting
May 2023 – Jul 2023

•Learned how to employ RESTful APIs and utilize server-side languages such as Python for data handling and storage in PostgreSQL databases, improving overall data management. Developed responsive web forms using HTML, CSS, JavaScript, enhancing user interaction and data collection along various platforms.
•Managed version control through git and project progress and maintained clear documentation, including participating in the creation of Business Requirement Document (BRD) and Functional Requirement Document (FRD), using JIRA.
•Ensured API performance through testing via Postman and maintained code quality and system reliability through unit testing with Jest.
•Implemented Jenkins for CI/CD pipelines, accelerating code integration and deployment, and actively engaged in project planning.

Full Stack Developer, Texas A&M University
College Station, Aug 2022 – Dec 2022

•Implemented a full stack website with Express, Nodejs+ SQL for server-side development alongside jQuery and HTML/CSS for frontend development as well as incorporating the use of Google API's.
•Utilized the AWS cloud platform to deploy and host web applications and worked on the integration of new features and enhancements, and bug fixes into existing web applications, utilizing agile methodologies.
•Collaborated with the development team to maintain version control using Git and GitHub and assist with the gathering of client requirements. Used Python data science modules to model tests for data in order contribute to the continuous improvement of web application performance.

Student Research Assistant, Texas A&M University
College Station, May 2022 – Dec 2022

•Collaborated with a team of researchers on the development and implementation of predictive statistical models using various machine learning algorithms such as Decision Trees, Random Forest, and Logistic regression. Implemented feature extraction techniques using Python libraries such as NumPy and Pandas to calculate malware similarity scores.
• Applied reverse engineering techniques using tools such as Ghidra to disassemble and analyze machine code of malware samples. Participated in the implementation of experiments to evaluate different malware detection approaches using metrics such as precision and recall.

Student Assistant, Texas A&M University
College Station, May 2022 – Aug 2022

• Assisted in technical maintenance tasks and conducted regular system checks, troubleshooting hardware and software issues to minimize downtime and maximize productivity. Utilized Python programming language to automate Excel data management processes, such as organizing and manipulating spreadsheets, performing data analysis, and generating reports for departmental use.

PROJECTS

Algorithmic Trading Model
•Developed a predictive machine learning algorithm using LTSM networks in TensorFlow and Keras to analyze stock market trends using financial APIs like Yahoo Finance for data collection. Engineered the required indicators from market data to capture trends and train the model.
•Processed data and implemented machine learning models primarily linear regression, logistic regression, pair trading, mean reversion.
•Conducted Back testing for the model using historic data to measure performance and improve efficiency.

OverseBrowser
•Developed a robust, feature-rich web browser application, "Overse", leveraging Python and the PyQt5 toolkit. Implemented various features such as multi-tabbed browsing, bookmarking, user profile management, history tracking, and an omnibox for URL and search inputs.
•Integrated database support using SQL for storing user information and browsing history. Enhanced the graphical user interface (GUI) using PyQt5's vast array of widgets and styling options, implementing a modern aesthetic and intuitive usability.
•Working on incorporating enhancements such as browser security features, ad-blocking capabilities, and an improved, modern user interface.