Aashwin Katiyar

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| SUMMARY  Enthusiastic Computer Science student proficient in Python, Java, C#, JavaScript, React and Angular equipped with a solid understanding of databases like SQL, and PostgreSQL. Offering 5 years of experience in developing & testing software. Seeking a challenging opportunity as a Software Engineer. | TECHNICAL PROJECTS  **Personal Portfolio Website (Personal)**   * Created a website in NextJS, ReactJS, Tailwind CSS and ChartJS and deployed it to Vercel. * Created animations using Framer Motion.   **Sentiment Analysis Algorithm (Internship, Interview Project)**   * Created a sentiment analysis algorithm that utilizes basic natural language processing to provide a polarizing weightage (in percentage) to tweets extracted from Twitter. * Coded the algorithm in python and used libraries like nltk (for NLP), pandas (for dataframes) and Tweepy (for extracting tweets from specific accounts using the Twitter API).   **E-store Website (Academic, Group Project)**   * Designed an e-store website using Angular, Tailwind CSS for the frontend, and Java Spring Boot for the backend. * Managed user and product data in separate JSON documents.   **Java TCP/UDP Server** **(Academic)**   * Implemented a TCP ServerSocket server in Java, accommodating GET and POST requests from a client. * Enhanced server performance through UDP server packets to transfer large data files.   **Encryption Messenger Server (Academic)**   * Built a C# HTTPS server utilizing asynchronous code and REST API requests. * Implemented RSA encryption for secure message transmission.   **Movie Catalogue Simulation (Academic)**   * Created a CLI Python application using PostgreSQL and SQL queries to perform CRUD operations. * Performed Exploratory Data Analysis on synthetic, non-trivial data using Pandas, NumPy, and Plotly.   **Discord Bot** **(Personal)**   * Developed a Python-based Discord bot capable of outputting phrase-specific data, using the Discord Python library, YTDL, FFMPEG and deployed it to Heroku.   **Connected Graph Checker (Academic)**   * Developed a Java program using BFS to evaluate the connectivity of a graph, represented by an adjacency list.   **Luxo Lamp Graphics Art (Academic)**   * Created a primitive 2D image of Luxo the lamp in p5js using tessellation and midpoint drawing algorithm. * Recreated the art in 3D by creating a model in blender using 3D coordinates in blender to WebGL.   **Ball Bouncing Game (Personal)**   * Created a simple ball bouncing game in Unity; involved avoiding block enemies as a ball protagonist. * Coded all the logic for the game in C#.   **Visual Path Finder (Academic)**   * Developed an AI algorithm in python that uses A\* Heuristics to find paths by pixel coordinates for an image.   [More projects available on [LinkedIn](https://www.linkedin.com/in/aashwin-katiyar-104b58183/details/projects/)] |
| EDUCATION  **Rochester Institute of Technology**  Bachelor of Science in Computer Science  Expected August 2023 **|** Rochester, NY |
| SKILLS  **Programming:**  Python • Java • C# • JavaScript • .NET • C • Rust • Golang • TypeScript • HTML • CSS • XML • MySQL • PostgreSQL • MongoDB • Bash • Maven • Spring Boot  **Web Technologies/Frameworks:**  Node.js • ReactJS • NextJS • Angular • Vue • Tailwind CSS • Material UI • Charts.js • RESTful API • P5js • WebGL  **Python Frameworks/Libraries:**  Pandas • NumPy • NLTK • Django • Dash • Plotly • Tweepy  **Software/Services:**  Jira • Agile • Confluence • Git • GitHub • Anaconda • Azure • Datadog • Linux • Postman • Blender • Maya • Unity • DevOps • CI/CD • LaTeX |
| WORK EXPERIENCE  **CRESTRON ELECTRONICS**  Software Engineer Intern (Remote)  January 2022 – December 2022 | Rockleigh, New Jersey   * Created a dashboard application written in python, to display vital information for IoT devices. * Utilized the Python Dash Framework and Pandas and deployed it to Azure Functions. * Wrote the backend in Java to fetch data from Streambase and send it to the Dashboard * Utilized REST API to extract and manipulate data from Datadog and Streambase, enhancing data representation. * Optimized performance for the dashboard by rewriting it in JavaScript, ReactJS, Tailwind CSS, Material UI, and NodeJS, employing Agile and DevOps methodologies. * Deployed new dashboard to Azure Static Web Apps. * Increased data display speed from 20 seconds to 1 second by enhancing the application’s performance. |