SRIJAN SURESH

BUFFALO GROVE – IL

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EDUCATION

University of Illinois at Chicago

Chicago,IL   August 2023 – December 2025

- Bachelor of Science in Computer Science (Software Engineering Concentration)
- Dean's List
- Relevant Coursework: Data Structures, Databases, Computer Algorithms, Language and Automation, Applied Statistical Methods, Linear Algebra

SKILLS

Technical Skills: C/C++, Python, Java, JavaScript, R, Unix/Linux, HTML, CSS, LaTeX
Database: PostgreSQL, MySQL, SQLite, NoSQL, Google Firebase
Frameworks and Libraries: React, Node, Express, Flask, TensorFlow, Pandas, NumPy

WORK EXPERIENCE

ACT Software Engineer Intern, Quality Assurance Engineer

Iowa City, IA   June 2022 – August 2022

- Redesigned the test Score admin page UI/UX and backend, restructing data accuracy by 25% and decreased administrative processing time
- Utilized Tableau to create interactive and visually appealing dashboards to analyze test score data, identify trends, and present insights to trends, and present insights to stakeholders.
- Refined and Executed robust test automation using PyTest.
- Launched Tableau to monitor test process performance such as test execution times, defect resolution rates, and test coverage metrics to optimize efficiency and effectiveness.

PERSONAL PROJECTS

CarConnect   April 2024

GitHub Repository

- Computed a web application that allows users to connect rides with other users in a car share.
- Performed dijkstra's shortest route algorithm to find nearest user client to connect car, improving efficiency by approximately 40%.
- Designed and implemented a React-based front-end UI/UX for dynamic client-side rendering.
- Configured Node/Express server backend to manage routing and set up PostgreSQL to store user address and details in database.
- Set up a NoSQL Google Firebase to handle user authentication.

SpaceRides   February 2024

GitHub Repository

- Developed a robust carpooling website in collaboration with 4 people in 24 hours.
- Integrated Google Maps API/leaflet for accurate location tracking and optimized route planning for users.
- Programmed site using HTML, CSS, JavaScript and integrated REST API to retrieve user information and process carpooling and process carpooling requests.
- Utilized PHP backend to handle user authentication, data storage, and interaction with the REST API, to ensure seamless functionality and security of carpooling site.

Search Algorithm   January 2024

GitHub Repository

- Programmed a data scraping search algorithm using C++, with several built-in class functions.
- Created several test suites using google test suite and increased efficiency by identifying slow searches.
- Developed algorithms to remove tokens, filter, and find query matches on 90+ tested articles.
- Analyzing key metrics such as precision, recall, and F1 score to assess search algorithm effectiveness.