SOUMYENDRA SHRIVASTAVA

⌕ LeetCode [Top 3.1% in Contest]   ⌕ Code Signal (99th Percentile)   in LinkedIn   ○ GitHub

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EDUCATION

Master of Science, Software Engineering (Data Science)   GPA: 4.00/4.00

San Jose State University, San Jose, CA   *May 2024 (Expected)*

Relevant Coursework - Data Mining, Machine Learning, Web and Big Data Mining, Deep Learning.

Bachelor's in Information Technology   GPA: 3.76/4.00

Rajiv Gandhi Technical University, Bhopal, India   *Jul 2017 — Jul 2021*

Relevant Coursework - Data Structures, Design and Analysis of Algorithms, Operating Systems, Computer Networks, Computer Architecture, Artificial Intelligence, Blockchain Technologies, Database Management System.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, HTML5, CSS, PHP, C++

Technologies/Tools: Amazon Web Services (AWS), Google Cloud Platform (GCP), Kubernetes, Docker, Tableau, MongoDB, CI/CD, Jenkins, Git, Ansible, Agile, ElasticSearch, Confluence, Jira.

AI/ML Stack: Scikit–learn, Tensorflow, PyTorch, OpenCV, D3.js, PyCaret, pandas, NumPy, TensorRT, MlFlow

PROFESSIONAL EXPERIENCE

Research Assistant   Apr 2023 Onwards

San Jose State University   *San José, US*

- Developing software for autonomous cars to probabilistically identify risk metrics at road intersections using Federated Learning.
- Leveraged LeNet-5 Algorithm with Keras for weather classification on the simulated dataset obtaining 92% accuracy over 4 weather categories.
- Generated custom dataset using CARLA Simulator consisting 10,000 epochs of LiDAR, Radar and Image data for training autonomous vehicles.

Software Development Engineer   Jul 2021 — Jul 2022

Zetwerk   *Bangalore, India*

- Created a MEAN stack application to improve the supply chain management for the client. Led the design and implementation of detailed database structures and robust APIs, ensuring efficient data management and seamless integration of frontend and backend components.
- Upgraded the existing supply chain management platform to accommodate multiple tenants and added reusable components resulting in reduction in further development time by 60%.
- Improved existing API calls for the Customer Dashboard by minimizing the response time to 300ms and enhanced code quality by 79%.

Software Development Intern   Mar 2021 — Jun 2021

Zetwerk   *Bangalore, India*

- Ensured code quality by writing shell scripts, configuring a custom dashboard for SonarQube and reducing sonar vulnerabilities from 120 to 40.
- Created an Eslint file using Airbnb style guide and refactored legacy code to reduce linting errors from 900 to 200.

RESEARCH PAPERS

Drone Cloud surveillance intelligence - State-of-the-art Solutions, Challenges, and Needs,

under Prof. Jerry Gao at SJSU, CA (UPCOMING- Accepted in IEEE Mobile Cloud 2023) ⍈

- Proposed a surveillance drone cloud with reference infrastructure, and, integration of drone technology with cloud computing and real-time data sharing

PROJECTS

RecipeWiz: Recipe Recommendation Application   Aug 2022 — Dec 2022

- Designed an React application, that uses Recommendation System trained on a data set of more than 150,000 recipes using Term Frequency Inverse Document Frequency algorithm, Sent2Vec, Word2Vec and FAISS ANN.
- Recommends recipes based on similar nutrition values, similar cooking style and similar cuisine.