

Srikar Ummineni

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srikar-ummineni Ferogle

EDUCATION

Virginia Tech (Virginia Polytechnic Institute and State University)

Virginia, US

Master of Engineering in Computer Science — CGPA: 4.0/4.0

Aug 2024

Key Courses: Machine Learning, Social Media Analytics, Neural Network Design, Cloud Computing, Web Application Development, Information Visualization, Operating System

Indian Institute of Engineering Science and Technology (IIST)

West Bengal, India

Bachelor of Technology in Information Technology — CGPA: 8.4/10

May 2021

Key Courses: Data Structures, Algorithms, Operating Systems, Theory of Computation, Database Systems, Computer Networking

- Finalist (in top 250) of MJF's CodeIndia19 hackathon where we developed an Android application to connect doctors and patients in 3 days.
- Currently Expert coder on Codeforces with an highest rating of 1608.
- Currently 4* coder on Codechef with an highest rating of 1900.
- Secured a rank of 24 out of 12k participants in ICL 2019 (Codechef).
- Secured a rank of 1809 out of 8k participants in Round F Google Kickstart, 2019.
- Secured a rank of 1275 out of 17k participants Ozon Tech Challenge 2020 (Codeforces).

SUMMARY

Motivated Software Engineer with a proven track record building industry-level projects across diverse domains. Seeking to leverage existing skills and adaptability to excel in Full Stack development and Cloud computing environments.

SKILLS

Languages & Libraries: Python, MySQL, C++, Java, C, Javascript, Typescript, Go, Scikit-learn, Matplotlib, Pyplot, Seaborn, Dash, React, Redux

Tools & Frameworks: Nodejs, JSP, JDBC, Servlets, AWS, HTML, CSS, GDB, MongoDB, Mongoose, Express, Docker, Nextjs, PrismaDB, Spring Boot, Microservices, JPA, Hibernate, Jenkins, Ansible, Kubernetes, DevOps, RabbitMQ, Kafka, CI/CD, Elasticsearch, Valgrind, TBB, Boost

WORK EXPERIENCE

Cadence Design Systems

Bangalore, India

Software Development Engineer 1

July 2021 - July 2023

- Built REST APIs for License Management portal using Spring Boot, Gradle, JUnit and Mockito testing; resulted in 25% faster response time and 15% increase in throughput
- Architected Spring Boot microservices deployed on AWS (ECS) using Hibernate ORM for seamless interaction with a MySQL database.
- Key developer in migrating legacy JSP application to ReactJS components, resulting in a 40% decrease in page load times and a 25% improvement in user responsiveness metrics

Crio.Do

Bangalore, India

Software Engineer Intern

Dec 2020 - May 2021

- Drive many user-facing front-end projects. Leverage tools like Redux, React Query and techniques such as SSR and SSG to ensure seamless, performant, and engaging user experiences.
- Setup load tests using JMeter and profiling using JProfiler to assess system and API performance.

RELEVANT PROJECTS

Tweet Streaming

Associated with Virginia Tech

- Architected a scalable, distributed Twitter data streaming solution using a microservices architecture, leveraging Java, Spring (Boot, Cloud, Security), Kafka, Elasticsearch, and Docker for containerization.
- Implemented key microservice patterns, including event-driven communication (RabbitMQ), service discovery (Eureka), load balancing, retry mechanisms, and rate limiting, ensuring system resilience and optimized performance.

Livestream Web application

Associated with Virginia Tech

- Built a live streaming platform with Reactjs, Nextjs, Nodejs, Prisma, MongoDB. Key features include streaming using RTMP protocol, syncing user information using web hooks, real-time chats using sockets, connecting to OBS.

Capital Bikeshare Mobility Optimization

Associated with Virginia Tech

- Developed geospatial analysis techniques using Geopy and Folium to optimize multi-modal commute routes for bike share and metro users.
- Clustered bike share users based on behavioral patterns using K-Means, aiding targeted marketing and service improvement strategies.
- Engineered new features and applied Random Forest regression to predict bike trip duration, achieving an RMSE of 38.85 minutes.