Vamshi Saggurthi
Full stack developer with 4+ years of industry experience

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Education

Rutgers University Sep 2021 - May 2023	Master's in Computer Science **Coursework**: Distributed Systems,Machine Learning,Design and Analysis of Algorithms, Math for Data Science,Data Visualization
Osmania University Oct 2013 – May 2017	Bachelor of Engineering in Information Technology **Coursework**: Data Structures and Algorithms, Operating Systems,Computer Networks,Database Systems, Compiler Construction

Skills

Languages: Python, Java, JavaScript, R
Libraries/Frameworks: ReactJS, Redux, Dash, Sci-kit Learn, PyTorch, Pandas, WebgL, Matplotlib, MxGraph
Databases: MySQL, Postgresql, MongoDB
Version Control: GIT ;**MISC**: Docker, Kubernetes, RESTful, CI/CD, AWS

Work History

SDE Intern **Striim Inc.** Palo Alto, CA Jun 2022 - Aug 2022	● *Real Time streaming Analytics*: **Reduced 37% bugs ,** by building end to end analytics application which includes data scraping, ETL, and web interface for visualization, which formed as the baseline data for prioritizing development. ● *Library Diagnosis:* Developed library diagnosis module for analyzing jar dependencies installed on customer deployment.
Research Intern **Dr. Mitrofanova lab** Rutgers Uni, NJ Dec 2021 - present	● *Cancer detection gene analysis(2nd author) :* Built a Bio Conductor Package of cancer detection algorithms, improved their computational performance by 400% **(paper in review nature communications)** . ● Built large slurm based distributed genome data streams for faster computational analysis.
Sr. Software Engineer **Dassault Systems** Pune, India Jun 2020 - Jul 2021	● *MicroService Orchestration***:** Transformed custom tooling for local microservices orchestration boosting developer productivity by 40%. ● Developed & maintained cloud microservices for COVID research clinical trials supporting Moderna and other institutes. ● *Custom Observability Tooling:* Designed and Developed custom tooling for observability, monitoring and metrics reporting for advanced analytics. ● Resolved scalability bottlenecks for backend services in AWS which improved service performance by 10%. ● Built Predictive alert systems which reduced scaling failures by 15%.
Sr. Software Engineer **Hexagon Inc** Hyderabad,India Aug 2017- Aug 2020	● *Workflow Designer:* Developed complex cloud based web applications for mechanical engineers' design workflows. ● Optimized data flow in the application by building custom middleware using React-Redux ,boosting load time by 30%. ● Spearheaded "edge computing feature" improving performance by 40% in mobile browsers and devices with limited compute power. ● Engineered and implemented proof of concept for Computer Vision based text extraction from instrument specification images.

Projects

Criminalytics [Python,Dash]	● Formulated an **ETL pipeline** that periodically collects crime data for the last **15 years** for the city of Chicago. ● Designed and built geographical dashboard for chicago crime data analysis (2012-present) consisting over 7 million data points. ● Implemented high performant api queries that allows users to bring out statistical outcomes on the fly for over **7 million** records in under **1.5-sec** using **out of core dataframes.**
Multi DB Query Parser [React,Python]	● Designed and developed a cross-device (**Android, IOS, Tablet, Website**) multi-database query parser, allowing users to connect to available databases on the fly and execute queries simultaneously.

Awards and Extracurriculars

Hexagon PoB Award (2019,2018)	● Awarded twice for exceeding expectations for taking initiative for project delivery and leading new feature developments
whatsupgeek.com	● Founding member and Active Blogger