Sharmisha Parvathaneni

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EDUCATION

Master of Science (MS) in Computer Science   *August 2022 - May 2024*
University of Illinois at Chicago, Illinois

SKILLS

Languages	Python, JavaScript, Java, C, Matlab, SQL
Frontend	ReactJS, AngularJS, Vue.js, Redux, HTML, CSS, D3.js, jQuery, Bootstrap
Backend	Node.js, ExpressJS, FASTAPI, Django, Flask, Sequelize, Apache Hadoop, Spark
Cloud/Database	AWS, Microsoft Azure, MySQL, PostgreSQL, MongoDB, Docker
Other	GIT, JIRA, Selenium, Agile, Scrum, Tableau, CI/CD, Jenkins, SSIS, Alteryx, Linux

WORK EXPERIENCE

Full Stack Engineer, *M3L Lab, UIC*   Jan 2023 - Present

- Designed the CRADLE tool in Angular to effectively visualize and analyze phase diagrams and crystal planes.
- Optimized the performance of critical REST APIs by up to 45% and increased crystal data retrieval speed by 300% through strategic schema redesign, query optimization and efficient indexing techniques.
- Developed a warehouse, automating data collection from various sources utilizing SSIS for materials, resulting in a 70% reduction in data access time and a 40% increase in analytical efficiency.

Web Developer, *UI Health*   Jan 2023 - Present

- Employed Excel (PivotTables, statistical functions) to assess resource needs of disability students in 12+ high schools.
- Utilized CMS platforms and web technologies (HTML, CSS, JavaScript) to implement design and functionality improvements, resulting in a 40% increase in user engagement.

System Engineer, *Tata Consultancy Services*   Aug 2021 - Aug 2022

- Developed user authentication (OAuth 2.0-based Single Sign-On (SSO) system) micro-service for a telecom billing and invoicing service with integration and unit test coverage of around 90%.
- Implemented centralized API gateway with ExpressJS, leveraging AWS Elasticache for Redis. Achieved over 40% API latency reduction and significant microservices scalability enhancements.
- Handled database migration, involving data export, dump files, and connection string updates, from AWS to Azure, leading to cost reduction by 50%.
- Collaborated with cross-functional teams in an agile environment to analyze client requirements, actively participating in different phases of software development, including requirement gathering, design, development, testing, and deployment.

Data Analyst, *Heighten Solutions*   July 2020 - June 2021

- Designed and implemented an automated inventory and deployment workflow using PnPjs, ReactJS, SharePoint, and Power Automate, reducing manual work by 40 hours per week and enhancing asset management efficiency and accuracy.
- Delivered data-driven insights on demand and inventory dynamics, through both quantitative and qualitative analysis and presented them through Tableau dashboards and ad-hoc reporting.

PROJECTS

Personal Portfolio

- Enhanced web hosting with AWS S3, CloudFront, Route 53, and ACM, while automating updates through GitHub Actions for a seamless deployment process.

Data Warehousing for Sparkify

- Conducted ETL to transfer data from AWS S3 to staging tables and a data warehouse on Redshift clusters. Created a data model for improved analytics querying and utilized Infrastructure as Code (IaC) to set up AWS resources, enhancing process efficiency and control.

AirBnB Price Prediction

- Conducted EDA to identify crucial factors and implemented a Random Forest Regression model, achieving 85% accuracy in property price predictions, with outcomes visualized using MLlib in PySpark and Seaborn.

LEADERSHIP & INVOLVEMENT

- Certified in Google Advanced Data Analytics course
- Guided 14+ young entrepreneurs with disabilities to lead and innovate through UIC's Entrepreneurship program.
- Won 2nd place in a Python Hackathon conducted by GRIET, India