

Sharmisha Parvathaneni

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EDUCATION

Master of Science (MS) in Computer Science

University of Illinois at Chicago, Illinois

August 2022 - May 2024

SKILLS

Languages	Python, JavaScript, TypeScript, Java, C, C++, SQL
Frontend	ReactJS, AngularJS, Vue.js, Redux, HTML, CSS, D3.js, jQuery, Bootstrap, AJAX, DOM
Backend	Node.js, ExpressJS, FASTAPI, SOAP, REST, Django, Flask, Sequelize, GraphQL, Apache Hadoop
Cloud/Database	AWS(EC2, S3), Microsoft Azure, Kubernetes, MySQL, PostgreSQL, MongoDB, Docker, GCP
Other	GIT, JIRA, Selenium, Agile, Scrum, Tableau, CI/CD, Jenkins, SSIS, Alteryx, Object-Oriented Design

WORK EXPERIENCE

Full Stack Engineer, *M3L Lab, UIC*

Jan 2023 - Present

- Designed the CRADLE tool in ReactJS 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 SQL server database 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.
- Containerized applications with Docker, reducing deployment time by 30% and increasing resource efficiency by 20%.

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 significantly improved the microservices scalability.
- 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.
- Collaborated with developers and manager to understand the requirements for project and worked on non-functional requirements such as alerting, CI/CD, Resiliency and Automation testing.

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.

Inventory Management System

- Built an Inventory Management System with JavaFX and MySQL, enabling streamlined billing, sales reporting, and purchase tracking. Implemented real-time stock control, sales analysis, invoice generation, and comprehensive reporting using Java and SQL technologies.

Network Attack Classification

- Developed a real-time intrusion detection system (RT-IDS) using machine learning algorithms to analyze and classify online network data as normal or attack type. Identified 12 essential features of network data that are relevant to detecting network attacks using the information gain as our feature selection criteria.

LEADERSHIP & INVOLVEMENT

- Guided 14+ young entrepreneurs with disabilities to lead and innovate through UIC's Entrepreneurship program.
- Certified in Google Advanced Data Analytics course