Sharanya Manohar

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Website | Github | LinkedIn

EDUCATION

University of Illinois at Chicago, ***Chicago, IL*** **August 2021 - May 2023**
Master of Science in Computer Science

Visvesvaraya Technological University, ***Karnataka, India*** **August 2015 - June 2019**
Bachelor of Engineering in Electronics and Communications

SKILLS

Programming Languages and Frameworks **:** Python, JavaScript, TypeScript, AJAX, Scala, C++, React, Django, Flask, Angular, REST API
Data Analytics and Cloud Platforms **:** SQL, PostgreSQL, Git, Tableau, DataBricks, Pandas, AWS, GCP
Software Development Methodologies **:** Scrum, Agile, System Design, CI/CD pipelines
Machine Learning and Data Processing **:** Docker, TensorFlow, Snowflake, Apache Spark, Octave, Kubernetes

WORK EXPERIENCE

School of Management - UIC, ***Chicago, IL*** **August 2022 - May 2023**
Teaching Assistant - Business & its External Environment

- Utilized Python and Scala to create tools for efficient student progress tracking and individualized feedback
- Implemented data analysis with SQL and Pandas to evaluate class performance and identify improvement areas
- Collaborated with faculty, adopting an Agile approach for continuous course refinement based on student feedback
- Ensured 24/7 student access to course materials through cloud platforms, gaining experience with Amazon Web Services

Discovery Partners Institute - UIC, ***Chicago, IL*** **May 2022 - August 2022**
Software Developer - Graduate Hourly Student Worker

- Conducted research to optimize the placement of electric vehicle chargers in Chicago
- Utilized Google Maps API to generate information on over 650 electric vehicle charging stations
- Optimized algorithms for assigning owners to charging stations using Python and Django
- Developed an interactive user interface using JavaScript and Ajax for visualization and user convenience

Center for Research in Space Science and Technology - PES University, ***Bengaluru, India*** **August 2019 - Sept 2020**
Software Python Developer - Research Associate

- Designed and maintained satellite telemetry user interface, enabling efficient performance analysis through structured data visualization, reducing manual interpretation time by 5 hours
- Devised alternative user interface platforms to optimize audience reach and collaborated with cross-functional teams
- Optimized 2 development products within budget constraints while ensuring effective operation of satellite telemetry
- Supported cross-functional collaboration, by presenting findings to senior research scientists, and contributing to the enhancement of satellite performance analysis through regular trouble shooting and technical support

PROJECTS

1. Urban Smart-Planning Toolkit
OptiCharge Station Mapper & Shadow Accrual Maps

- **Eco-friendly Urban Mobility:** Developed a dynamic application harnessing Django, AJAX, and HTML to integrate geo-data and render optimal EV charging station locations. The tool communicated seamlessly with back-end services providing users with tailored recommendations to enhance the urban EV charging experience.
- **Architectural Light Management:** Leveraged the power of Angular, D3, and TypeScript to create a visualization tool that showcases the distribution of seasonal shadows across urban landscapes. This tool aids architects and city planners by providing insights into optimal placements and designs for natural lighting throughout the year.

2. Advanced AI Customer Engagement & Community Connect
Language Translation, E-commerce Revenue Prediction & Forager

- **Real-time Multilingual Support**: Deployed a translation service on Amazon Web Services (AWS) using transformers, bolstering customer support with multilingual capabilities, ensuring seamless translations across major European languages.
- **Personalized Shopping Experience**: Employed Scala, PostgreSQL in DataBricks alongside Scrum and Agile methodologies, to craft a system that analyzes customer behaviors, predicting and optimizing e-commerce revenue streams with CI/CD pipelines ensuring seamless updates.
- **Tackling Food Wastage with Technology**: Developed a Django-backed platform, storing data in MySQL, connecting food donors and beneficiaries using a REST API, effectively reducing food wastage and nurturing community relationships.