Sripad Sirikonda

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EDUCATION

University of Illinois Chicago *(UIC)* ***Expected Graduation: December 2025***

- Bachelor's of Science in **Computer Science** | College of Engineering ***GPA: 3.83 of 4.00***
- **Courses**: Data Structures, Computer Algorithms, Software Design, Computer Vision, Applied Linear Algebra, Data Science
- **Honors**: Fall 2023 and Spring 2024 **Dean's List**; National Society of Leadership and Success Inducted Member

SKILLS

Programming: **Python, Java, C/C++, React.js, SQL, JavaScript,** REST APIs, Cloud Computing, R, SaaS, Powershell, GIT, API
AI/Machine Learning: TensorFlow, Scikit Learn, Keras, NumPy, Pandas, MATLAB
Technical Leadership: Agile, CI/CD, Software Testing, Team Management, AWS, Jupyter Notebooks

PROFESSIONAL EXPERIENCE

AI/ML Models for Water Infrastructure Optimization — *Intern/Researcher* ***Chicago, IL***

UIC College of Engineering June 2024 - Present

- Boosted water infrastructure efficiency by **35%**, reducing resource wastage by **15%** using ML and Bayesian models
- Streamlined data processing by **30%** through advanced data collection and preprocessing techniques
- Enhanced contamination detection speed by **40%** and accuracy by **25%** utilizing WNTR and Bayesian optimization

Web Administrator ***Chicago, IL***

UIC Undergraduate Student Government August 2024 - Present

- Managed and updated the website serving **20,000+ students**, ensuring access to key student resources and event information
- Led and attended **50+ executive meetings**, contributing to initiatives impacting the entire UIC undergraduate student body

Teaching Assistant for CS 211: Programming Practicum ***Chicago, IL***

University of Illinois Chicago August 2024 - Present

- Guided **100+ students**, leading **10+ lab sessions and lectures** on C programming, debugging with `gdb` and `vim`

Mobile Application Developer ***Aurora, IL***

Chicago Saranam Yatra Organization - *Link to app on App Store* December 2023-September 2024

- Reached **1,000+ users** within 3 months, managing **600+ appointments** monthly with a React Native app
- Maintained **99.9% uptime**, ensuring seamless scheduling experience for users
- Built and optimized back-end using Node.js and Firebase, **improving data access speed by 50%**

PROJECTS

Finance Tracker Educational App - *React Native, Database* (In Progress)

- Developed a cross-platform app for **100+ users with 40% improved engagement**, using real-time expense tracking

Pantry Tracker Web App - *TensorFlow.js, React.js, Software Development* - Link to web app - Link to demo - Github Project

- Built a full-stack app, improving inventory management efficiency by **50%** with **90% image classification accuracy**

Traffic Congestion Predictor - *Flask, PostgreSQL* (In Progress - Working on User Interface)

- Designed an ML model for real-time traffic optimization, enhancing route prediction accuracy - GitHub Project

NASA Planetary Seismic Event Detector - *PostgreSQL, Redis, Reactjs, STA/LTA Algorithm, Python, Tensorflow*

- Developed a project as part of **NASA Space Apps**; identified seismic events from **Apollo** and **Mars InSight data**, **improving detection accuracy by 30%** and reducing data transmission **volume by 70%**

ACTIVITIES

Google Developer Student Club (GDSC): Led projects using **Google technologie**s like **AI** and **Cloud** to solve real-world problems
ACM - Sig AI: Contributed to **AI research and campus projects**, focusing on real-world applications of **machine learning**
Lunabotics: Designed and **built robotic systems** for **NASA's lunar excavation** challenge, collaborating in multidisciplinary teams
Interests: Investing, robotics, sports (basketball, soccer), travel, photography, fitness, hiking, automotive engineering, reading Sci-Fi