

SRIPAD SIRIKONDA

CHICAGO, ILLINOIS

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Education

University of Illinois at Chicago

Bachelor of Science in Computer Science

Expected Graduation May 2026

Chicago, IL

Relevant Coursework

- Data Structures
- Computer Algorithms
- Computer Vision
- Database Management
- Intro to NLP
- Intro to Data Science
- Systems Programming
- Machine Organization

Experience

SWIM Research Labs UIC

June 2024 – Present

ML Models for Water Infrastructure Optimization — Intern/Researcher

Chicago, IL

- 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

UIC Undergraduate Student Government

August 2024 – December 2024

Web Administrator

Chicago, IL

- 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

Chicago Saranam Yatra Organization || [AppStoreLink](#)

December 2023 – September 2024

Mobile Application Developer

Aurora, IL

- 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

Tesla Battery Optimizer 📄 | Python, React.js, Langchain, Llama3, DynamoDB, Docker, AWS

March 2025

- Developed a Tesla Battery Health Optimization Platform that ingests real-time battery data to forecast state-of-charge, enabling proactive maintenance and optimized charging cycles.

bounce 📄 | Python, React.js, REST APIs, Firebase

February 2025

- Built an interactive paper trading platform with React, Firebase, Scikit, and REST APIs, integrating AI-driven insights, real-time market data, and educational content.
- Achieved 2nd place at SparkHacks 2025 by delivering trading simulations for 100+ users

NASA Planetary Seismic Event Detector 📄 | Python, Tensorflow, PostgreSQL, Redis, React.js

November 2024

- Implemented a NASA Planetary Seismic Event Detector using PostgreSQL, Redis, React.js, the STA/LTA algorithm, Python, and TensorFlow to identify seismic events from Apollo and Mars InSight data.
- Boosted detection accuracy by 30% and slashed data transmission volume by 70%, marking significant performance enhancements.

Pantry Tracker Web App 📄 | Firebase, React.js, TensorFlow.js

July 2024

- Engineered a full-stack Pantry Tracker web app using TensorFlow.js and React.js, boosting inventory management efficiency by 50% and achieving 90% image classification accuracy.
- Deployed on Vercel with Firebase Authentication, achieving 99.9% uptime for 1000+ monthly active users

Technical Skills

Programming: Python, Java, JavaScript, C++, C, HTML/CSS, F#, R, GoLang, SQL, Node.js, React.js, Flask, Next.js

Tools: Langchain, TensorFlow, AWS, Google Cloud, Jupyter Notebooks, Git, Maven, Linux, PostgreSQL, ChromaDB, DynamoDB

Leadership / Extracurricular

TA for CS 211: Guided 100+ students, leading 10+ lab sessions and lectures on C, debugging with gdb and vim

ACM - Sig AI: Contributed to AI research and campus projects, focusing on real-world applications of machine learning

NASA Lunabotics: Built robotic systems for NASA's lunar excavation challenge, collaborating in teams

Google Developer Student Club (GDSC): Led projects using Google technologies like AI and Cloud to solve real-world problems