Saravana Polisetti

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Education

Purdue University West Lafayette, Indiana
Computer Science + Data Science Dual Major *August 2021 – May 2026 (Pursuing Master's Degree)*
CS Concentration: Machine Intelligence **Dean's List & Semester Honors (x4)**

- **Cisco** San Jose, CA
  Cisco Secure SWE Intern *May 2024 - August 2024*
  - Developed a log analysis program that parses firewall logs to detect potential vulnerabilities/errors and provides potential fixes
  - Created custom CLI commands to enable/disable Linux kernel coredumps and optimize memory coredump
  - Optimized kernel core dump memory management by implementing new data classification system, cutting kernel coredump generation from 6 to 4 hours
- **Garmin** Olathe, KS
  Aviation SWE Intern *May 2023 - August 2023*
  - Worked on the development of a new GSR application feature which enabled pilots to communicate with ground personnel via voice calls, messaging, and email
  - Utilized a tech stack consisting of Spring Framework, Kafka, Liquibase, Maven, Lombok, Mockito, JIRA, and Jenkins
  - Designed and implemented RESTful API endpoints which brought down latency between GSR app and Iridium Satellite Services by 3 seconds
- **Hack the Future (Purdue Club)** West Lafayette, IN
  Team Lead and Developer *October 2022 - April 2023*
  - Led a team of 8 students to develop a website for a nonprofit organization, utilizing a tech stack including TypeScript, React, npm, GitHub, and Figma
  - Designed and implemented dynamic web page layouts, developed reusable React components, and optimized the front-end architecture
- **NASA** Cupertino, CA
  NASA SEES Research Intern *June 2020 - August 2020*
  - Contributed to a deep learning research project focused on mosquito habitat classification
  - Developed a custom Python web scraping tool to retrieve, analyze, and classify CEO plot data
  - Applied advanced image classification models, including VGG16, InceptionV3, Xception, and AlexNet, for habitat analysis
  - Co-authored a research paper detailing the methodology, implementation, and findings of the project

Projects

- **Roulette Outcome Prediction:** Implemented computer vision and physics methodologies to predict roulette outcomes, theoretically improving user advantage. Leveraged Roboflow for dataset labelling and employed YOLOv8 for object detection and real-time predictive modeling
- **Boilermake X Hackathon** Worked on UniCards, an online credit card that consolidates multiple credit cards into a single card, optimizing benefits by selecting the best card for each transaction. Designed and implemented the decision-making algorithm for optimal card usage

Skills

- Java, C/C++, Python & R, Swift, Unix, JavaScript, TypeScript, HTML & CSS, React, Git, LaTeX, SQL, MySQL