Sravan Parakala

+(484)560-6271 | paraks@rpi.edu | github.com/sparakala21

Personal Statement

Master's student in Information Technology and Web Science at RPI specializing in machine learning and large-scale software engineering. Experienced in designing user-centered technical solutions, including GPU orchestration tools for Graph Neural Networks that assess drug toxicity. Skilled at translating complex technical concepts into accessible solutions through four years of collaborative development experience. Seeking healthcare technology roles to leverage technical expertise in developing solutions that improve patient outcomes and accelerate medical research. Graduating May 2026.

Education

Rensselaer Polytechnic Institute *Troy, NY*

Bachelor of Science in Computer Science *May 2025*

- **GPA:** 3.16 **GPA in major:** 3.55
- **Relevant Course Work:** Data Structures, Introduction to algorithms, Operating Systems, Database Systems, Machine Learning from Data, Robotics, Software Design and Documentation, Data Analytics
- **Honors:** Rensselaer Leadership Award, Dean's Honor List

Skills

Programming C, C++, Java, Python, MATLAB, TypeScript, React, HTML5, JavaScript, NodeJS, SQL, Nextjs, MongoDB

Technologies Git, GitHub, GitHub Actions, Linux/terminal, bash scripting, Docker, AWS, GCP, Webots, PX4

Work Experience

ReMo *Remote*

Full Stack Developer Intern *May 2025 - Present*

- Designed and implemented a data entry system enabling students to log reading progress and teachers to validate submissions, improving data accuracy and workflow efficiency
- Developed a recommendation engine proof-of-concept using graph-based collaborative filtering algorithms to enhance user content discovery
- Rebuilt client relationship management system to eliminate HubSpot dependency, reducing annual costs by thousands year while providing granular customization capabilities for development team

Merck and Co. *Cambridge, MA*

ML Ops Intern *June 2024 - August 2024*

- Built standardized MLOps template repository with integrated CI/CD pipeline, accelerating model deployment from 2-3 weeks to 2-3 days and enabling faster production releases across data science teams
- Authored comprehensive documentation for CI/CD orchestration and maintenance within the MLOps template, improving developer onboarding and system reliability
- Conducted stakeholder interviews with data scientists to gather requirements and inform design decisions, creating a strategic development roadmap for future MLOps initiatives

CRC-5 *Troy, NY*

Rensselaer Polytechnic Undergraduate Research *November 2023 - April 2024*

- Write custom firmware for a drone with quadrotor and forward flight capabilities.
- Due to a hardware issue, most of my firmware could not be experimentally validated.
- To address this, I used a simulation software called webots to better understand how the firmware would work in realistic physics.

Clubs

Member, Mentor, Project Lead *Troy, NY*

Rensselaer Community for Open Source *August 2022 - current*

- Built Colorblind-friendly UI features for a project used by hundreds of students each year.
- Built multiple features to improve visibility and transparency in energy consumption
- Started my own project to help food vendors to not rely on high cost apps to maintain a delivery service.
- Helped 30+ students build their own projects by holding seminars about git, front-end and back-end tools, AI, and many more

RPI *Troy, NY*

RPI Undergraduate Mentors *May 2023 - current*

- **Introduction to Computer Science:**
- Taught for the largest individual class at RPI
- Held office hours, graded exams, tutored students, and proposed curriculum changes.
- **Software Design and Documentation:**
- Took responsibility for several teams success, met with them each week assessed their needs and provided them with the relevant resources and insight from my own projects.
- Mediated disputes within groups and fostered a culture of over communication.