

Sumedha Saravanakumar

(925) 487-5243 | sarava30@purdue.edu | [linkedin.com/in/sumedha-saravanakumar](https://www.linkedin.com/in/sumedha-saravanakumar) | github.com/sumedha-ss

EDUCATION

| | |
|--|--|
| Purdue University <i>Bachelor of Science in Computer Engineering, Concentration in AI & Machine Learning</i> <ul style="list-style-type: none">Cumulative GPA: 4.0Relevant Coursework: Intro to C Programming, Advanced C Programming, Python for Data Science, Data StructuresSemester Honors & Dean's List (Fall 2024, Spring 2025)Involvement: Purdue Stack, Boiler Robotics, Autonomous Robotics Club (ARC), Purdue Momentum, Vertically Integrated Projects (VIP), The Data Mine | West Lafayette, IN August 2024 – May 2028 |
|--|--|

EXPERIENCE

| | |
|--|---|
| Frontend and Backend Software Engineer <i>Purdue ECE Corporate Partnerships Program</i> <ul style="list-style-type: none">Contributing to full-stack development of web platforms supporting ECE industry partnerships and student engagementBuilding scalable backend services and intuitive frontend interfaces using React, JavaScript, Node.js/Express, and REST APICollaborating with stakeholders to gather requirements, propose technical solutions, and iteratively refine product features | West Lafayette, IN November 2025 – Present |
| Software Engineering Intern <i>Yottasecure, Inc.</i> <ul style="list-style-type: none">Contributed to full-stack development of scalable web applications using Java, Python, and ReactSupported AI-driven cybersecurity projects focused on vulnerability detection and system hardeningConfigured and maintained AWS EC2 instances for application deployment and testing | Santa Clara, CA May 2025 – August 2025 |

PROJECTS

| | |
|---|--|
| Social Stock Exchange Real-Time News Feed <i>React Native, Expo, Node.js, Express, Supabase</i> <ul style="list-style-type: none">Developed a news feed in the SSE mobile app for real-time celebrity updates and trending contentImplemented personalized feeds, keyword search, and interactive features (upvotes, comments) to improve user engagementBuilt news ingestion pipelines using scrapers and APIs with Supabase (Postgres + storage) for persistence and caching | |
| Purdue ECE Faculty Directory Web Application <i>React, Axios, Framer Motion, CSS, Node.js, Express, Cheerio</i> <ul style="list-style-type: none">Developed a React frontend and Node/Express backend with dynamic search by faculty name or research areaImplemented search features supporting wildcard, partial, and root-word matching using regex and Porter stemmingBuilt a web scraper to extract and store faculty information in a JSON cache to avoid redundant requests | |

CLUBS & LEADERSHIP

| | |
|--|--------------------------|
| DevOps Engineer <i>Autonomous Robotics Club</i> <ul style="list-style-type: none">Building and maintaining the ARC website to support student activities and campus engagementContributing to software engineering projects focused on developer tool platforms and campus software solutionsDeveloping web applications using React, JavaScript, Python Flask, Firebase, and FastAPI | September 2025 – Present |
| Hackathon Coordinator <i>Purdue Momentum</i> <ul style="list-style-type: none">Planning Momentum's hackathon, including managing logistics, coordinating sponsors, and overseeing technical setupGaining hands-on experience in project coordination, team leadership, and large-scale event execution | September 2025 – Present |
| Software Engineer <i>Boiler Robotics</i> <ul style="list-style-type: none">Developing and testing computer vision algorithms to analyze images of geological samples to detect photosynthetic materialProgramming a robotic arm with ROS to perform precise manipulation tasks like inserting USB devices and flipping switchesImplementing semi-autonomous navigation with computer vision, sensor fusion, and real-time data processing | August 2025 – Present |

TECHNICAL SKILLS

| | |
|--|--|
| Languages: Java, Python, C, JavaScript, TypeScript, HTML, CSS, MATLAB, R, SQL | |
| Frameworks & Platforms: React, Node.js (Express), Flask, FastAPI, Bootstrap | |
| Databases & Cloud: Supabase (Postgres + storage), Firebase, AWS (EC2, RDS), Docker | |
| Developer Tools: Git, Linux, Visual Studio Code, PyCharm, Eclipse | |
| Libraries: NumPy, pandas, Matplotlib, Plotly, scikit-learn, OpenCVNumPy, pandas, Matplotlib, Plotly, scikit-learn, OpenCV | |