

HRISHITH RAJ REDDY MALGIREDDY

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SUMMARY

Software Developer with 2+ years of experience in designing, developing, and deploying robust web applications and backend systems. Proficient in full-stack development using modern frameworks and tools. Experienced in integrating AI-driven features and applying cybersecurity best practices to enhance application performance, reliability, and security. Adept at working in agile environments and delivering scalable, maintainable code.

PROFESSIONAL EXPERIENCE

Research Assistant and Teaching Assistant

University of Missouri

Aug 2023 - Present

- Designing and developing a comprehensive website for the Center for Physical and Power Electronics Laboratory, enhancing research visibility and resource accessibility.
- Assisting in the development and delivery of course materials for advanced cybersecurity topics, including lab sessions and student mentoring.
- Developing machine learning models, specifically Residual Convolutional Neural Networks, for power loss estimation in ferrite cores.
- Conducting model training, evaluation, and optimization using PyTorch to ensure efficient and accurate performance.

Technologies: Visual Studio, Git, PyTorch, Bootstrap, HTML, CSS, JavaScript.

Software Developer Intern

Raise Digital

Nov 2022 – Mar 2023

- Developed and deployed full-stack web applications including an E-Commerce platform and an Online Job Search Portal using the MERN stack (MongoDB, Express.js, ReactJS, Node.js).
- Built scalable backend services with Express and MongoDB, and integrated deep learning features into APIs to enhance system intelligence and performance.
- Designed responsive, user-friendly front-end interfaces using ReactJS, Bootstrap, and CSS for seamless user experiences across devices.
- Utilized Git for version control and collaborated within an Agile team using GitFlow for structured branching and pull requests.
- Automated CI/CD workflows using Docker and Jenkins, reducing deployment times and improving release consistency.
- Implemented Prometheus for real-time application monitoring and Grafana for visualizing performance metrics and identifying bottlenecks.
- Participated in daily stand-ups, sprint planning, and retrospectives, delivering high-quality, production-ready features on schedule.
- Conducted unit and jest testing to maintain code quality and reliability across the stack.

Technologies: ReactJS, Bootstrap, CSS, HTML, Node.js, Express.js, MongoDB, Git, GitFlow, Docker, Jenkins, Prometheus, Grafana, Unit Testing, Jest, Agile Methodology, Azure.

Cybersecurity Analyst & Ethical Hacking Intern

Supraja Technologies

Jan 2022 – Nov 2022

- Developed automation scripts and integrated security tools to detect vulnerabilities early in the development lifecycle, enhancing the robustness of software infrastructure.
- Collaborated with developers to perform WAPT and simulate cyberattacks, identifying backend logic flaws and implementing secure coding practices and remediation directly into the codebase.
- Streamlined security assessment workflows by integrating CI/CD pipelines with automated scanning tools, reducing manual effort and accelerating vulnerability resolution.

Technologies: Python, Kali Linux, Burp Suite, OWASP ZAP, Nmap, Metasploit, Wireshark, Bash, Linux.

TECHNICAL SKILLS

Programming Languages:	Java, C, C++, C#, Python, Typescript, SQL, HTML, CSS, PHP, JavaScript
Frameworks and Platforms:	Flask, ExpressJS, Angular, ReactJS, Hadoop, Bootstrap, Apache Kafka, .NET, PySpark
Web Services:	REST
Messaging Systems:	RabbitMQ
Tools:	AWS, Jenkins, Ansible, Figma, Prometheus, Grafana, Azure, GIT, Kubernetes, Docker, GCP
Unit Test framework:	Jest, JUnit
Operating Systems:	Windows, Linux, Ubuntu, Mac

EDUCATION

Columbia, MO, USA

University of Missouri

August 2023 – July 2025

Master of Science in Computer Science

Hyderabad, TS, India

Sreyas Institute of Engineering and Technology

August 2019 – May 2023

Bachelor of Technology in Computer Science and Engineering

ACADEMIC PROJECTS

SGChain and SDN using Knowledge Graphs in Power Grids

- Engineered an automated system to detect and defend against Distributed Denial-of-Service (DDoS) attacks within power grid networks.
- Trained a neural network for Phasor Measurement Units (PMUs) and generated knowledge graphs for reference during future attacks.
- Leveraged AWS SageMaker for neural network training and effectively managed PMU datasets pre- and postattack to enhance cyber defense strategies.
- Developed a full-stack control panel dashboard for attack detection, deployed it using Docker with CI/CD pipelines, and integrated monitoring through Grafana and Prometheus.

Technologies: Docker, Git, Jenkins, Prometheus, Grafana, CI/CD, HTML, CSS, JavaScript, AWS, AWS SageMaker.

Smart Attendance System Using Facial Recognition

- Engineered an automated attendance system using facial recognition technology, reducing the need for manual entry and improving accuracy.
- Integrated camera input with face detection algorithms to identify and record attendance, with output converted to Excel sheet for reporting.
- Developed a responsive dashboard using HTML, CSS, JavaScript, and Bootstrap to display and manage attendance records efficiently.

Technologies: Python, OpenCV, HTML, CSS, JavaScript, Bootstrap, Excel, PHP, MySQL.