

## HRISHITH RAJ REDDY MALGIREDDY

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### SUMMARY

A results-driven Software Developer with over two years of experience in full-stack development, backend engineering, and DevOps automation. Proficient in building scalable and high-performance software solutions utilizing modern frameworks. Expertise includes the MERN stack, REST APIs, AI/ML integration, and CI/CD pipelines. Demonstrated success in enhancing system performance, boosting automation efficiency, and ensuring application reliability within Agile settings.

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### PROFESSIONAL EXPERIENCE

#### Research Assistant & Teaching Assistant | University of Missouri – Columbia | Aug 2023 – Jul 2025

- Engineered and launched a research lab website, boosting visitor traffic by 30% in the first three months.
- Constructed Residual CNN models in PyTorch for ferrite core power loss estimation, achieving a 15% improvement in prediction accuracy over baseline models.
- Optimized machine learning pipelines and fine-tuned hyperparameters, which decreased model training time by 20%.
- Mentored and supported over 60 students per semester in cybersecurity labs, contributing to higher student engagement and lab completion rates.

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

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#### Software Developer Intern | Remote Raise Digital | Nov 2022 – Mar 2023

- Architected and delivered E-Commerce and Job Portal applications using the MERN stack, successfully serving over 1,500 monthly users.
- Engineered RESTful APIs with Express and MongoDB, which slashed average query response times by 25%.
- Designed responsive frontends with ReactJS, leading to a 40% increase in mobile user retention.
- Automated CI/CD pipelines using Docker and Jenkins, dramatically reducing deployment cycles from hours to under 30 minutes.
- Implemented real-time monitoring dashboards with Prometheus & Grafana, cutting system downtime by 35%.

**Technologies:** ReactJS, Node.js, Express, MongoDB, Docker, Jenkins, Prometheus, Grafana, Git, GitFlow, Azure, Jest, Agile

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#### Cybersecurity Analyst & Ethical Hacking Intern | Supraja Technologies | Jan 2022 – Nov 2022

- Created automated vulnerability detection scripts, decreasing manual security review time by 50%.
- Executed web application penetration testing (WAPT), which identified and remediated more than 10 critical backend vulnerabilities.
- Partnered with development teams to implement OWASP Top 10 security fixes, lowering risk exposure across applications by 30%.

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

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### EDUCATION

#### University of Missouri – Columbia, MO

Master of Science in Computer Science | Aug 2023 – Jul 2025

#### Sreyas Institute of Engineering and Technology – Hyderabad, India

Bachelor of Technology in Computer Science & Engineering | Aug 2019 – May 2023

## ACADEMIC PROJECTS

### SGChain & SDN using Knowledge Graphs in Power Grids

- Constructed a DDoS detection system utilizing neural networks and knowledge graphs, attaining 92% detection accuracy on PMU datasets.
- Deployed models with Dockerized CI/CD pipelines, which reduced setup and deployment time by 40%.

**Technologies:** AWS, SageMaker, Docker, Jenkins, Prometheus, Grafana, HTML, CSS, JavaScript

### Smart Attendance System (Facial Recognition)

- Innovated a facial recognition attendance tracker with Python and OpenCV, saving over 5 administrative hours weekly.
- Automated the generation of attendance reports into Excel, boosting efficiency by 75%.

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

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## TECHNICAL SKILLS

- **Languages:** Java, C, C++, C#, Python, JavaScript, TypeScript, PHP, SQL, HTML, CSS
- **Frameworks & Platforms:** MERN (MongoDB, Express, React, Node), Flask, Angular, .NET, Hadoop, PySpark, Bootstrap, Apache Kafka
- **Cloud & DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Jenkins, Ansible, Prometheus, Grafana, RabbitMQ
- **Testing & QA:** Jest, JUnit, Unit Testing, CI/CD automation
- **Cybersecurity Tools:** Kali Linux, Burp Suite, OWASP ZAP, Nmap, Metasploit, Wireshark
- **Collaboration Tools:** Git, GitFlow, Figma, Agile/Scrum
- **Operating Systems:** Windows, Linux, Ubuntu, macOS