

Sravya Karanam

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EDUCATION

- North Carolina State University | Master of Computer Science** - Raleigh, NC, USA Aug 2023 - May 2025
Courses: Algorithms, Software Engineering, Object Oriented Design & Development, Data Science etc. GPA: 3.9 /4.0
Teaching Assistant: TA for Operating Systems, Discrete Mathematics & Computer Systems
- Siddaganga Institute of Technology | Bachelor of Engineering in Computer Science & Engineering** Aug 2017 - May 2021
Courses: Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning GPA: 9.76 /10
Achievements: Dean's List honoree and Gold Medalist

WORK EXPERIENCE

- Software Developer - NC State University - Raleigh, NC, USA** May 2024 - Jul 2024
- Contributed to OpenPRA MonoRepo, managing 5000+ lines of code with **Nx** for maintaining packages and **C++** engines
 - Designed and optimized front-end components with **React**, TypeScript, Elastic UI, and Node.js, boosting user engagement by 15%
 - Upgraded the Sequence Editor feature via Node-based UIs, using AWS Lambda & API Gateway, raising code reusability by 20%
- Software Engineer - Western Digital - Bangalore, Karnataka, India** Jul 2021 - Aug 2023
- Developed 10+ bots using **Python**, REST APIs, and **AWS** to automate workflows, cutting manual work by 97%, reducing errors, and boosting throughput by 60% with IaC-managed environments
 - Integrated **SQL** queries into IQBot for large-scale data extraction, boosting accuracy by 95% & reducing processing from 6h to 1m.
 - Orchestrated containerized RPA workflows with Docker on AWS EKS (Kubernetes), leveraging autoscaling policies, achieving 99.9% uptime and integrating **CI/CD** pipelines to cut deployment time by 40%
 - Built Python-based tools to automate task assignments, streamline cross-functional workflows, cut overhead by 10 hours/week
 - Developed full-stack dashboards using Flask, React, and PostgreSQL to monitor bot performance and enable real-time insights
 - Mentored 2 interns in **RESTful** API integration & microservices deployment: guided bot migrations from dev to prod environment, elevating productivity by 30% and ensuring robust performance through comprehensive CI/CD pipelines
- Software Engineer Intern - Western Digital - Bangalore, Karnataka, India** Jan 2021 - Jul 2021
- Architected and deployed 5+ scalable bots in Automation Anywhere (Control Room, Task Bots, Meta Bots, IQ Bots), seamlessly integrating Python to automate high-volume processes, reduce manual effort and boost automation throughput by 70%
 - Developed SMTP-based notifications with Java and .NET frameworks, delivering automatic alerts to 100+ stakeholders
 - Optimized CI/CD pipelines under Agile methodologies through Git, elevating team productivity by 30% and reducing bugs by 35%

SKILLS

- Programming Languages:** JavaScript, Python, C++, Java, Go, SQL, Ruby
- Databases:** Snowflake, MySQL, PostgreSQL, MongoDB, SQLite
- Frameworks and Tools:** React, Node.js, Angular, Spring Boot, Redux, REST API, Tailwind CSS, PyTorch, TensorFlow, Django
- Cloud & DevOps:** AWS, Docker, Git, CI/CD, Kubernetes, GCP, OAuth, Linux, Terraform
- Certifications:** AWS Certified Cloud Practitioner, CCNA, AA, OCI (Oracle Cloud Infrastructure), Gen AI

PROJECTS

- Expertiza: Open-source peer-review platform, [GitHub](https://github.com)**
- Revamped an independent frontend in **ReactJS** with Redux for state management and Tailwind CSS for responsive design
 - Integrated **JWT authentication** to verify and decode **tokens** and managed user sessions, reducing unauthorized access by **100%**
 - Incorporated **AI-based** predictive analytics for peer-review recommendations, improving platform insights by 20%
- Django-PAY: E-Commerce WebApp**
- Built e-commerce web-app employing Python, Django, SQLite & microservices architecture, ensuring secure transaction processing
 - Enhanced performance and scalability through **RESTful** APIs, caching strategies, and automated CI/CD pipelines
- URL Shortener:**
- Designed REST API to shorten a given URL in **Go** executing **Redis** as cache and **PostgreSQL** as database in UNIX env
 - Programmed UI with **React** to consume REST API, Redux to store previously shortened URLs, processing **300+** URLs monthly
- BrainScan AI: Artificial Intelligence driven Brain Tumor Detection**
- Engineered a CNN model via Python, TensorFlow, and Keras, achieving 95% accuracy in classifying brain tumors from MRI scans