

Ramya Sudha Kalisetti

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PROFESSIONAL SUMMARY

Master's student in Computer Science with 3+ years of systems engineering experience, specializing in automating backend processes and optimizing system performance across Linux and Windows platforms. Proven ability to deliver high-quality technical support in dynamic, mission-critical environments, including cloud infrastructure management and website content updates. Experienced in troubleshooting, on-call support, and streamlining operations to enhance reliability and efficiency.

TECHNICAL SKILLS

- **Languages:** Python, C, SQL, JavaScript (ES6+), HTML, CSS
- **Libraries & Frameworks:** TensorFlow, Scikit-learn, OpenCV, Pytorch, React.js, Node.js, Express.js, Pandas, NumPy
- **Tools & Platforms:** AWS (EC2, S3), Docker, Git, MongoDB, Jira
- **BI & Visualization:** Power BI, Tableau, Google Data Studio, Matplotlib, Seaborn
- **Practices:** CI/CD, Agile Scrum, Test-Driven Development (TDD)
- **Technical Expertise:** Linux Expertise, Virtualization Technology, Scripting Skills, Network Technologies

WORK EXPERIENCE

Tata Consultancy Services (Client: Ericsson) Sep 2020 - Sep 2023

Systems Engineer

- Developed and optimized Python and Bash scripts for Red Hat Linux servers to automate routine system administration tasks—firmware upgrades, user provisioning, log rotation, and data backups—reducing manual effort by 40% and enhancing system reliability across Ericsson's infrastructure.
- Managed sole RHEL upgrades on 20+ servers across physical and cloud environments, boosting performance and patch compliance by 30% while ensuring effective troubleshooting and technical support.
- Configured and maintained development and staging environments using VMware and Oracle VirtualBox to streamline testing of automation scripts and server upgrades in support of continuous IT operations.
- Utilized JSON-based RESTful web services for automation tools and monitoring dashboards, facilitating seamless data ingestion and enabling timely on-call incident response.
- Implemented SSH password-less authentication with real-time alarms, reducing incident response time by 25% and supporting after-hours maintenance and troubleshooting.
- Collaborated with cross-functional teams to design data models and schemas, improving query speeds by 20% and enhancing the performance of client-facing applications.
- Conducted vulnerability assessments and remediated weak ciphers; automated the deployment of SHA-256 signed certificates using custom scripts to meet security standards and support system integrity.

Voiceqube May 2019 - Jun 2019

Intern

- Developed an OpenCV/dlib face-recognition model achieving 92% accuracy for automated attendance, demonstrating effective application troubleshooting and system design under operational constraints.
- Deployed an end-to-end Python ML pipeline with a webcam interface to eliminate manual logging, ensuring reliable system performance and streamlined user support.

ACADEMIC PROJECTS

AI Trip Planner – End-to-end intelligent travel planning system

- Built an AI-driven itinerary generator using **LangChain**, **LangGraph**, and **FastAPI**, integrated with **Streamlit** for an interactive UI.
- Connected external APIs (**Google Places**, **OpenWeather**, **OpenTripMap**, **Exchange Rate**) to fetch real-time attractions, weather forecasts, and budget estimates.
- Designed an **agentic workflow** to plan trips, enrich them with live data, and present structured itineraries in **Markdown/JSON** formats.

Warranty Guard Web App: Developed React.js/Node.js/MongoDB app with AWS CI/CD, digitizing warranties and automating QR-based retrieval. Reduced paper usage by 80% and improved user access.

EDUCATION

University of North Texas, Denton, TX Dec 2025

Master's, Computer Science **GPA:** 3.65

- **Coursework:** Software Engineering, Big Data, Machine Learning, Information Retrieval, Data Analytics, Scientific Data Visualization, Wireless Networks and Communications , Artificial Intelligence

Birla Institute of Technology and Sciences, Pilani, IN Nov 2022

Post Graduate certificate, Artificial Intelligence and Machine Learning **GPA:** 8.07

- **Coursework:** Regression, Feature Engineering, Unsupervised Learning and Association Rule Mining, Text Mining, Deep Learning and Neural Networks, Python, Generative Adversarial Networks

CERTIFICATIONS

- **Neural Networks and Deep Learning:**Coursera.
- **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization:**Coursera.
- **Red Hat Certified System Administrator Technologies:**Red Hat.