

Gowtham Nukala

Backend Developer | Portfolio: Gowtham Nukala

Mobile: +91 7993368519 Email: gowthamnukala938@gmail.com LinkedIn: linkedin.com/in/Gowtham Nukala Location: India

Summary

Backend Developer & Data Science Specialist with 1+ year of experience building scalable REST APIs (Node.js/Express) and automating cloud infrastructure. Skilled in Python, machine learning (TensorFlow/scikit-learn), and data visualization (Tableau). Optimized PostgreSQL performance by 15% and reduced deployment time by 30% through automation. Passionate about developing intelligent systems by combining backend engineering with data science.

Education

Bachelor of Technology in Electronics and Communication Engineering Seshadri Rao Gudlavalleru Engineering College, India	June 2020 – July 2024 CGPA: 7.0
Board of Intermediate Education Sri Chaitanya Junior College, India	April 2018 – May 2020 CGPA: 8.3

Technical Skills

- **Programming Languages:** Python, C, JavaScript
- **Data Science & Analysis:** Statistical Analysis, Regression (Linear & Logistic), Clustering, Factor Analysis
- **Machine Learning & Deep Learning:** scikit-learn, TensorFlow, NumPy, pandas, statsmodels
- **Data Visualization:** Tableau, matplotlib, Seaborn
- **Web Development:** HTML, CSS, Node.js, Express.js, React JS
- **Database Management:** MySQL, MongoDB, PostgreSQL
- **Version Control & Tools:** Git, GitHub Actions, VS Code, Anaconda
- **System Administration & Networking:** Linux, SSH, Jump Host, Cisco NX-OS, NX-API, VLANs
- Object-Oriented Programming
- Software Development Life Cycle

Work Experience

Backend Developer	May 2024 – May 2025
<ul style="list-style-type: none">• Developed robust RESTful APIs using Node.js and Express.js to drive automation of network and cloud services through a centralized infrastructure backend.• Executed secure SSH automation workflows via ssh2 library and jump host, enabling seamless VLAN configuration and switch management through Cisco NX-API integration.• Designed PostgreSQL schemas and queries to manage device metadata and logs, boosting database performance by 15%.• Streamlined backend-triggered provisioning of cloud services, including VMs and databases, reducing deployment time and enhancing scalability.• Established secure credential handling, session control mechanisms, and error tracking to ensure reliable, fault-tolerant infrastructure operations.	
SmartInternz (Powered by Google Developers & NEAT) Machine Learning & Deep Learning Intern	January 2023 – May 2023
<ul style="list-style-type: none">• Established and implemented ML/DL models to detect Parkinson's disease through voice analysis, achieving a classification accuracy.• Executed a real-world externship focusing on advanced neural network architectures and deployment, improving model training efficiency by 15%.• Collaborated with interdisciplinary teams to integrate AI solutions into healthcare applications, ensuring seamless functionality and user-friendly interfaces.	

Projects

Infra Automation Platform	May 2024 – May 2025
<ul style="list-style-type: none">• Engineered automated provisioning workflows for network and cloud infrastructure through a custom web UI, accelerating deployment processes and minimizing manual intervention.• Implemented secure SSH tunneling and NX-API integration, enhancing remote device management and configuration accuracy by 20%.• Developed Node.js backend services to streamline infrastructure automation, increasing deployment efficiency and reducing error rates.	

Certifications & Trainings

- Completed Machine Learning & Deep Learning-23 Externship with Google Developers – NEAT and SmartInternz.
- Achieved AWS Academy Graduate status by completing AWS Academy Machine Learning Foundations – Amazon Web Services.
- Certified in The Complete Full-Stack Web Development Bootcamp – Udemy.