# Lohit Kolluri

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## Education

**SRM Institute of Science and Technology**                                                      May 2022 – May 2026
*B.Tech in Computer Science Engineering*                                                        *Chennai, Tamil Nadu*

## Experience

**Apollo Tyres R&D**                                                                             Feb 2024 – May 2024
*Project Trainee*                                                                               *Chennai, Tamil Nadu*
- Architected a robust backend using Django and PostgreSQL to handle over 200 concurrent simulations, resulting in a 40% improvement in system performance and data retrieval efficiency.
- Designed and implemented an interactive dashboard utilizing Chart.js, allowing managers to monitor job assignments and completion rates; enabled tracking of individual engineer performance across 300+ projects in real time.
- Streamlined task management for a system handling over 1,000 tasks daily.
- Developed a web application that optimized the simulation workflow for Apollo Tyres, enhancing task allocation efficiency by approximately 30%.

**EduSkill Foundation**                                                                          Sep 2023 – Nov 2023
*Artificial Intelligence Intern*                                                                         *Remote*
- Completed AWS Machine Learning and AWS Cloud Practitioner courses, gaining proficiency in deploying and scaling ML models on AWS services such as S3, Elastic Container Service, and Lambda.
- Acquired cloud computing skills, including cloud security, architecture, and networking in the AWS ecosystem.

## Projects

**Natural Language to SQL Converter** | *OpenAI, Microsoft Azure, Streamlit, SQLite, Pandas*                Oct 2024
- Reduced deployment costs by 40% by hosting the application on Streamlit and Azure, improving operational efficiency.
- Achieved SQL factuality of 89.39%, semantic similarity of 99.98%, and criteria match of 95.66%, enhancing query accuracy and user experience.
- Implemented adaptive database handling and visualization, boosting user engagement by 30%.

**FlaskPost: Mass Mailer** | *FastAPI, Vercel Serverless, SMTP*                                            Oct 2024
- Improved API response time by 41.7% using FastAPI and FastMail for enhanced scalability and performance.
- Reduced operational costs by 100%, deploying the app via Vercel's Serverless Functions, saving INR 4,579.70 monthly.
- Converted the application into a SaaS platform, increasing user engagement by 25% through CSV input and SMTP configuration for personalized email campaigns.

**Simulation Queuing System** | *Django, PostgreSQL, REST API*                                             May 2024
- Optimized task management workflow, accelerating task allocation by 30% with a priority-based queue system.
- Automated job assignments across customer, admin, and engineer portals, cutting process delays by 20%.
- Architected a scalable three-tier system, enhancing data management security and efficiency.

## Technical Skills

- **</> Languages**: Python, JavaScript (ES6+), HTML5, CSS3, SQL
- **🌐 Web Technologies**: React.js, Next.js, Three.js, Tailwind CSS, Node.js, Express.js
- **☁ Cloud & DevOps**: AWS (EC2, S3, Lambda), Azure, Docker, GitHub Actions, Linux/Unix
- **☰ Backend Frameworks**: Flask, Django, FastAPI, Django REST Framework
- **🗄 Databases**: PostgreSQL, MySQL, MongoDB, Celery
- **🧠 AI/ML**: TensorFlow, PyTorch, scikit-learn, OpenAI GPT

## Certifications

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|---|---|
| **Microsoft Security, Compliance, and Identity Fundamentals** | *SC-900* |
| **Microsoft Azure AI Fundamentals** | *AI-900* |
| **Microsoft Azure Fundamentals** | *AZ-900* |

## Achievements

**Global Hackathon by SEED Global Education** | *3rd Place Winner*                                        Nov 2024
- Achieved 95.66% accuracy and 99.98% semantic similarity by fine-tuning GPT-4o Mini for NLP2SQL.
- Deployed a highly factual model (89.39%) on Streamlit, trained on a 15,878-row dataset.

**WebHack 1.0 by DevDisect** | *First Runner-Up*                                                           May 2024
- Fine-tuned Goliath-120B, boosting accuracy by 28%, for scalable health insights via web app.
- Enhanced doctor-patient interaction with personalized health analytics and voice-based inputs.