Elijah Afolabi

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Education

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

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| 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

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| Ð Languages: Python, JavaScript (ES6+), HTML5, CSS3, SQL   Web Technologies: React.js, Next.js, Three.js, Tailwind CSS, Node.js, Express.js Å Cloud & DevOps: AWS (EC2, S3, Lambda), Azure, Docker, GitHub Actions, Linux/Unix á Backend Frameworks: Flask, Django, FastAPI, Django REST Framework õ Databases: PostgreSQL, MySQL, MongoDB, Celery j AI/ML: TensorFlow, PyTorch, scikit-learn, OpenAI GPT Certifications |  |
| Microsoft Security, Compliance, and Identity Fundamentals | *SC-900* |
| Microsoft Azure AI Fundamentals | *AI-900* |
| Microsoft Azure Fundamentals Achievements | *AZ-900* |

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.