

# Tobi Emmanuel

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## EDUCATION

### University of North Texas

*Bachelor of Science in Computer Science*

Denton, TX

*Aug. 2023 – Dec. 2026*

### Weatherford Community College

*Associate's in Information Technology*

Weatherford, TX

*Aug. 2022 – May 2023*

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL, JavaScript, HTML, CSS

**Frameworks:** React, Node.js, Django, Flask, Pandas

**Databases:** PostgreSQL, MySQL, MongoDB, Firebase, Redis

**DevOps:** AWS, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Linux, Prometheus

**Tools:** Git, VS Code, Figma, SonarQube, PyCharm

**Methodologies:** Agile, Scrum, Software Development Life Cycle (SDLC)

**Certification:** AWS Certified **Solutions Architect** - Associate

## EXPERIENCE

### Undergraduate Python Tutor

Jan 2024 – Present

*University of North Texas*

*Denton, TX*

- Tutor freshmen in **Python fundamentals**, including variables, control structures, functions, and object-oriented programming
- Assist students in setting up PyCharm environments and managing Python projects locally
- Introduce students to **Git basics**, including initializing repositories, committing changes, and pushing code to GitHub

### Frontend Developer Intern

May 2025 – August 2025

*Sigli*

*Remote*

- Transformed a completely static HTML, CSS, JavaScript and React single page application into an **interactive user interface** using animations, transitions and carousels
- Processed API requests with Axios to dynamically represent data from a cloud server and represented it through skeleton loading states, pagination and dynamic routing
- Utilized Git version control and the GitHub interface to work and thrive in a virtual and collaborative team environment

## PROJECTS

### Microservices Application | *Python, Kubernetes, AWS EC2, PostgreSQL*

July 2025

- Developed a microservices-based system to convert **video files into audio** using Python and asynchronous processing with RabbitMQ
- Deployed services on AWS EC2 using Kubernetes and Helm for container orchestration and release management
- Integrated PostgreSQL and MongoDB to manage structured and unstructured data efficiently
- Built with scalability, modularity, and cloud-native principles to simulate real-world DevOps pipelines

### HTTP Web Server | *Flask, Git, Postman, RESTful APIs*

June 2025

- Developed a lightweight **HTTP server** using Flask to handle full CRUD (Create, Read, Update, Delete) operations via RESTful API endpoints
- Designed clean and modular routes for resource management using Flask's request/response lifecycle
- Tested and validated all endpoints using Postman to ensure proper request handling and response structure
- Demonstrated understanding of backend API design, status codes, and JSON-based communication

### Infrastructure as Code Deployment with Terraform | *Terraform, AWS, GitHub Actions, YAML*

May 2025

- Engineered a cloud infrastructure provisioning workflow using Terraform to automate the deployment of AWS resources including IAM, EC2, and VPC
- Configured GitHub Actions with **YAML workflow** to trigger infrastructure changes via pull requests and ensure consistent environment management
- Provisioned an isolated AWS VPC with subnets, route tables, and security groups to simulate real-world network segmentation and secure resource deployment