

H AKIF ZIAUDDIN

☎(+92) 3174193251

✉akifzia6@gmail.com

🌐[H AKIF SHEIKH](#)

🔗[Akifzia9184](#)

SUMMARY

Computer Science student with a strong grasp of core CS concepts, including Object-Oriented Programming, Data Structures & Algorithms, Databases, Secure Software Design, and Software Design & Architecture. Proficient in **C++**, **Python**, **Oracle SQL**, and **full-stack web development** using **Angular** and **Django (PostgreSQL)**. Experienced in deploying **cloud-based applications** using platforms like **Vercel** and **Railway**, and working with **Neon (PostgreSQL)** in cloud environments. Currently developing **Skill Map** as a final year project— A cloud-enabled platform with integrated AI/ML for adaptive skill matching, task coordination, and decision making. Passionate about building scalable, user-centric solutions. Actively seeking opportunities to contribute technical expertise within collaborative development teams.

EXPERIENCE

Lead Developer – Skill-Based Project Matching System

Jun, 2025 – present

- Developed a REST API with FastAPI and PostgreSQL for managing project skill data and user interactions.
- Built a full-stack app using Flask, Angular, PostgreSQL, and Docker to dynamically match users with projects based on skills, availability, and experience.
- Integrated GitHub OAuth to extract technical skills from user repositories, enabling better project-team matching.
- Designed real-time dashboards to visualize project team collaboration, skill distribution, and task progress updates.
- Utilized Gemini 1.5 Pro for intelligent task segregation and project assignment based on individual skillsets

FAST National University of Computer and Emerging Sciences

Expected Graduation: Jun 2025

Bachelor of Science in Computer Science

TECHNICAL SKILLS

Languages: Angular, C++, Python, SQL

Developer Tools: Git, GitHub, Oracle, VS Code, CursorAI, Eclipse, Trae AI, Google collab

Technologies/Frameworks: HTML, CSS

Cloud & Platforms: Vercel, Railway, Neon (PostgreSQL), Cloud-based deployment & integration

PROJECTS

Final Year Project – Skill Map| Django, Angular, PostgreSQL, Render

- Developed "Skill Map", a robust full-stack web application leveraging **Django (REST API)** and **Angular** to facilitate intelligent project collaboration.
- Engineered core features including **AI-driven task generation**, **automated team formation**, and **smart task assignment** based on developer skills and availability.
- Integrated **machine learning classification models** to accurately map tasks to appropriate developer roles, enhancing precision in task delegation.
- Designed and implemented **interactive dashboards** to visualize team collaboration, task progress, and performance insights for better decision-making.

Cloud-Based User Profile Analysis| Hadoop, MapReduce, Python, HDFS

- Developed a MapReduce-based classifier to predict user profile completion percentage on the Pokec social network dataset
- Implemented data clustering, feature analysis, and correlation visualization using Hadoop Distributed File System (HDFS).
- Optimized demographic and behavioral data processing using distributed computing techniques.

White-Box Testing with Cunit | C, CUnit, libsodium, libcli

- Developed automated unit tests using **CUnit** for cryptographic and CLI functions from open-source repositories (libsodium, libcli, CRC32), achieving comprehensive path coverage across 70+ lines of code.
- Designed **Control Flow Graphs (CFGs)**, defined **edge coverage-based test requirements**, and implemented input-driven test cases to validate function behavior and logic.

Poetry Generation | LSTM, TensorFlow, Keras, Python

- Built an LSTM model for generating poetry using TensorFlow and Keras.
- Preprocessed poetry datasets and fine-tuned the model for better creativity.
- Developed a web interface for real-time poem generation and evaluation