

Sahil Qureshi

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Summary

Full Stack Software Engineer (B.S. CS, GIKI 2026) with proven depth across full-stack engineering, secure backends, and AI applications. Built **SentinelDesk** — FastAPI, PostgreSQL, JWT auth, RBAC, Docker — processing 550 tickets at 90% classification accuracy; Final Year Project - **Horizon UI** ranked **3rd of 120** at GIKI Industrial Open House 2026.

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C++
Frameworks: FastAPI, RESTful APIs, React, Next.js, Node.js, Express.js
Databases: PostgreSQL, Oracle DB, SQLite, Redis, query optimization
Data & AI/ML: pandas, NumPy, scikit-learn, Power BI, model evaluation
Tools & DevOps: Docker, Git/GitHub, CI/CD, OpenAI API
Security: JWT Authentication, RBAC, input validation, audit logging, rate limiting

Experience

GoSaaS.AI - Software Engineer Intern Jun 2025 - Aug 2025

Lahore, Pakistan

- Built backend data workflows for an Oracle Cloud-hosted training portal managing **450+** employee training records and course assignments, reducing search time by 40%.
- Wrote **3** PostgreSQL scripts for training history reports, **training compliance reports** and **course-completion validation** across internal workflows, cutting report generation time under 1 minute.
- Resolved **2,000+** duplicate and inconsistent records, improving on-boarding data accuracy, reporting reliability, and stakeholder visibility.
- Built **3** Power BI dashboards that converted backend training records into completion, assignment, and progress reports for internal stakeholders.

Projects

<https://github.com/sahil16qureshi>

SentinelDesk – Secure AI Support Ticket Platform 2025

- Built a **full-stack** AI support ticket platform designed for **100+** users across customer, agent, and admin roles, with secure ticket creation, assignment, commenting, status tracking, and dashboard analytics.
- Developed an AI triage pipeline that processed **550** sample tickets, achieving **90%** category classification accuracy and reducing average manual ticket review time from **4 minutes** to **45 seconds** in test scenarios.
- Secured **20+** protected API endpoints with JWT authentication, bcrypt password hashing, role-based access control, input validation, rate limiting, and audit logging to prevent unauthorized ticket access.
- Designed **10** PostgreSQL tables for users, tickets, comments, assignments, audit logs, and AI analysis results; indexed queries reduced dashboard load time to **300 ms** and **Dockerized** the application for reproducible deployment.

Horizon UI – Gesture & Voice Controlled Desktop Interface 2026

- Built a software-only touchless desktop control system using **Python**, **OpenCV**, **MediaPipe**, speech recognition, and gesture data trained using **HaGRID** for cursor movement, application control, and user-defined actions.
- Achieved **36 ms** gesture processing latency through real-time hand-landmark tracking and optimized gesture-to-action mapping for responsive desktop control.
- Integrated voice command execution with desktop automation workflows, achieving **300 ms** voice latency and **0.90** intent accuracy for hands-free user interaction.

KnightScope - A Chess Move Analysis 2025

- Built an end-to-end chess analytics pipeline by converting **700,000** raw game logs into structured CSV datasets and segmenting gameplay into opening, middlegame, and endgame phases for feature extraction.
- Used **Stockfish centipawn-loss** analysis to quantify move quality and identify phase-wise weaknesses, generating recommendations that reduced average centipawn loss by **20%** in reviewed games.

Education

Ghulam Ishaq Khan Institute 2022-2026

B.S. Computer Science — CGPA: 3.1

Topi, Pakistan

Relevant Coursework: Data Structures & Algorithms, Database Systems, Object Oriented Programming, Software Engineering, Artificial Intelligence, Machine Learning, Operating Systems, Computer Networks, Cybersecurity.

Honors: Final Year Project secured **3rd position out of 120 projects** at Industrial Open House 2026.

Activities & Leadership

GIKI Science Society 2022-2026

Event Coordinator, All Pakistan Science Fair

GIKI

- Managed a national-level event with **300+** participants, secured event sponsorships, and managed a **PKR 2.5M+** budget across logistics, marketing, and on-ground execution.

GIKI Table Tennis Team 2025-2026

Captain

GIKI

- Captained the GIKI Table Tennis Team and won **gold medal** at HEC 2025, representing GIKI at the national level.