Hamza Faraz

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EDUCATION

Ghulam Ishaq Khan (GIK) Institute of Engineering Sciences and Technology — Topi, Swabi
Bachelor of Science in Computer Science — CGPA: 3.22/4.0 — Aug 2022 – May 2026

Islamia College Peshawar (ICP) — Peshawar
Pre-Engineering — Aug 2019 – May 2021

EXPERIENCE

Ghulam Ishaq Khan Institute (GIKI) — Topi, Swabi
Software Engineer — Nov 2024 – Aug 2025

- Developed and deployed a transport management system adopted by **3,000+ students and employees weekly**, streamlining ticket booking and tracking.
- Reduced the need for in-person ticket purchasing, saving users an estimated **3 hours weekly** previously spent standing in lines.
- Implemented an employee module for booking tickets for themselves and their families through a simple, intuitive interface.
- Built an admin dashboard for centralized management of bookings and ticket sales, improving operational oversight.
- Consolidated transport revenue into a dedicated system, enabling transparent and efficient financial tracking.

Techloyce - SubcriptionFlow — Lahore
Software Engineering Intern — Jun 2025 – Aug 2025

- Enhanced frontend performance by fixing slow-loading pages and resolving faulty inputs, improving page speed by **25%** and overall user experience.
- Built and maintained **Cypress end-to-end tests**, ensuring reliable frontend workflows and reducing regression errors.
- Contributed to training an AI model on company databases for generating business insights, such as revenue and sales reports.
- Designed and optimized **MySQL queries**, data definition scripts, and documentation to improve the model's data accuracy and usability.

PROJECTS

RSS Aggregator, Full Stack | *Golang, React, PostgreSQL, Goose* — Jan 2025 – Feb 2025

- Developed a full-stack web application using Golang for the backend and React for the frontend, enabling users to aggregate and manage RSS feeds from multiple blog sites in a single interface.
- Implemented a seamless user experience with real-time feed updates and efficient parsing of RSS data using Goose and PostgreSQL for structured storage.
- Designed an intuitive UI to allow users to subscribe to, categorize, and search through their blog feeds easily.
- Currently refining features and optimizing performance for a potential public launch.

Waste Classifier, Team Member | *SVM, CNN, Machine Learning* — Nov 2024 – Dec 2024

- Developed a waste classification model to categorize waste into cardboard, glass, plastic, paper, and metal using SVM, achieving an accuracy of **89%**.
- Experimented with CNN, which outperformed SVM in classification accuracy.
- Refined the model for better real-world applicability.

TECHNICAL SKILLS

Languages: Golang, Python, JavaScript (JS), SQL (Postgres, MySQL, MongoDB), HTML/CSS
Frameworks: Nodejs, React, Django, Goose, Chi, SQLc, Shadcn, Material-UI, REST APIs
Developer Tools: Git, Docker, Linux, VS Code, Visual Studio
Libraries: pandas, NumPy, Matplotlib