

Shireen Khan

Full-Stack Software Engineer

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Education

National University of Sciences and Technology (NUST), Islamabad, Pakistan Sep 2019 – Jun 2023
Bachelor of Engineering in Software Engineering
CGPA: 3.74 | Rector's Gold Medal for Best Final Year Project (Software Dept.)

Skills

Programming: C/C++, Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, OOP, Bash, SwiftUI
Technologies & Tools: React.js, Next.js, Angular, Node.js, Express.js, Firebase, PostgreSQL, TailwindCSS, Bootstrap, Stripe, SendGrid, XState, GCP, Docker, N8n, Git/GitHub, Ubuntu/Linux, BigQuery, REST APIs
Soft Skills: Communication, Leadership, Creativity, Time Management, Teamwork, Attention to Detail

Work Experience

Full Stack Engineer, Efani – Remote Mar 2024 – Present

- Worked on the **PEAN stack** with **n8n, GCP (BigQuery, Cloud Run), SendGrid, and Stripe APIs** leading end-to-end design of core systems. Built a custom subscription/coupon platform, independently designed n8n workflows with LLMs + BigQuery to automate Google Ads (90% less manual work), optimized checkout with a multi-step flow (+10% conversions), added crypto payments, and improved tracking via server-side GTM/Meta CAPI (+40% accuracy). Enhanced security with OWASP/BurpSuite, built SendGrid newsletters, lists, and automations. Resolved daily bugs, optimized performance, and ensured smooth app operations.

Software Design Engineer, Teresol – Onsite Nov 2023 – Mar 2024

- Contributed to revamping a core banking app using **Vue.js, Node.js & JavaScript**, focusing on FSM workflows and frontend integration. Rebuilt Java-based screens and connected backend APIs with XState, improving transaction reliability. Built Vue.js components with FSM context binding, reducing UI and legacy bugs.

Full Stack Engineer, QLU.ai – Onsite Jul 2023 – Nov 2023

- Developed an MVP GPU-lending platform using **React, Electron, Node.js & Docker**, enabling users to share GPUs over SSH. Built backend workflows and a custom terminal for command execution, resolving connection issues for stability. Delivered the prototype from scratch, ensuring reliable GPU sharing and speeding delivery.

Engineering Intern, Contract.pk – Remote Aug 2022 – Sep 2022

- Built and deployed an AI legal platform using **React, Next.js, Firebase & Vercel**, implementing authentication, Firestore integration, and chatbot-style query handling with T3-style stack for scalable end-to-end functionality.

IT Intern, Fauji Fertilizer Bin Qasim Ltd. (FFBL) – Onsite Jul 2022 – Aug 2022

- Worked on **SAP, ABAP & BI tools** to understand business processes and data representation.

Projects

FYP - Sound of Silence (Automated Lip Reading) Nov 2022 – May 2023

- Developed a user-friendly web & android app producing audio from silent/noisy videos by analyzing the speaker's lip movements, with **Flutter & React.js** frontend, **Python** backend, & **Flask APIs** handling server-side video preprocessing and **ML** inference for smooth functionality. Achieved an accuracy of approx. 74%.

Drowsiness Detection System Jan 2022

- Built a **CNN-based** real-time system to detect driver drowsiness via eye-state classification and trigger alerts.

Campus Management System Dec 2021

- Built a full-stack management portal using **Node.js, Express.js, MongoDB, HTML, CSS, and JavaScript**.

Library Management System Jun 2020

- Developed a Java-based **GUI** application with **MS SQL** and **OOP** principles for managing books and users.