

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.