

# AZEEM SARWAR ( Senior Fullstack Engineer )

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## OBJECTIVE

Highly motivated **Software Developer** with a strong academic background in **Information and Communication Technology (ICT)** and over 4 years of experience in developing scalable applications. Proficient in **Python programming**, with expertise in designing modular architectures, integrating IT systems, and administering **Linux-based environments**. Passionate about quantum communication and cryptographic technologies, eager to contribute to the **Q-net-Q** research project by developing innovative software solutions for quantum key distribution systems. Seeking to leverage my technical skills and problem-solving abilities to drive advancements in secure communication systems.

## SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, SQL

**Frameworks:** React.js, React-Native, Node.js, Express.js

**Technologies:** RESTful APIs, WebSocket Communication, AWS, Firebase, MongoDB, MySQL

**Tools:** Git, Linux, Visual Studio Code, Postman

**Methodologies:** Agile, Scrum, OOP, CI/CD, Functional Programming, Test Automation

## EXPERIENCE

### Mid-Chain Technologies

Hybrid

Senior Frontend Engineer

Jul 2022 – Present, Full-time

- Developed and maintained hybrid mobile applications using **React.js** and **React Native**, ensuring seamless performance across platforms.
- Collaborated with designers and backend developers to implement user-centric mobile interfaces and streamline workflows.
- Led end-to-end development of projects, including **requirements analysis**, system design, and implementation.
- Optimized code quality by integrating **automated testing frameworks** such as **Jest** and **Cypress**, achieving 40% higher test coverage.
- Worked in Agile environments (**Scrum** and **Kanban**), participating in sprint planning, retrospectives, and pair programming sessions.
- Enhanced app performance, reducing load times by 25% through modular architecture and responsive design principles.

### System Pvt. Limited

Pakistan

Full-Stack Developer

Feb 2021 – Jun 2022, Full-time

- Designed and developed full-stack applications using **React.js** and **Node.js**, ensuring efficient front-to-back integration.
- Implemented dynamic user interfaces and dashboards, improving usability and customer engagement by 20%.
- Managed **Firebase** and **MongoDB** databases, optimizing performance and ensuring secure data storage.
- Contributed to Agile processes, delivering features aligned with client requirements within tight deadlines.
- Collaborated with cross-functional teams to ensure smooth delivery of high-quality solutions.

### Freelance (Willder-Inc Japanese company)

Remote

Front-End Developer

Oct 2019 – Jan 2021, Full-time

- Developed mobile-friendly user interfaces using **React.js**, ensuring compatibility across browsers and devices.
- Optimized application performance, achieving a 30% improvement in load times.
- Collaborated directly with clients to gather feedback and deliver tailored, scalable solutions.
- Designed modular and reusable components, reducing development time for future projects.

### AFSquare

Remote

Frontend Developer Intern

Feb 2019 – Aug 2019, Internship

- Contributed to the development of reusable **React.js** components, improving code maintainability.
- Assisted in deploying cloud-based applications using **AWS**, gaining experience in cloud architecture.
- Collaborated with senior developers to implement best practices in front-end development and UI/UX design.

PROJECTS

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Signature Recognition System | [GitHub](#)

- Developed a **Python-based behavioral biometric system** for signature recognition, supporting both static and dynamic recognition modes.
- Implemented **machine learning models** using **Keras**, **Scikit-learn**, and **NumPy** to analyze signature patterns and ensure accurate recognition.
- Designed the system to process offline signatures from scanned images and real-time dynamic signatures acquired through digitizing tablets or capacitive screens.
- Leveraged data visualization libraries like **Matplotlib** to analyze and interpret recognition results.
- Built a modular architecture, allowing seamless integration with biometric authentication workflows in various environments.

Alliance Platform | [GitHub](#)

- Developed a **.NET** and **React.js**-based web application designed to facilitate seamless collaboration among university departments for resource sharing and project management.
- Implemented secure user authentication and a dynamic dashboard for managing shared resources and project timelines.
- Optimized database operations using **SQL Server**, improving data retrieval speeds by 25%.
- **Awarded First Prize** for this project at the university’s annual software exhibition, recognizing its innovation and impact.

E-Library App | [GitHub](#)

- A digital platform built using Python, Django, and React that allows users to organize, store, and manage PDF e-books. It enables both librarians and customers to interact with the library by adding, updating, and downloading e-books.

Note-It App | [GitHub](#)

- A notes management application that allows users to create folders and add multiple notes to each folder. Built using Django Rest Framework and ReactJs, the app offers a simple, efficient way to organize notes and provides an intuitive user interface for seamless interaction.

AWARDS & ACHIEVEMENTS

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**Gold Medal for Academic Excellence:** Awarded for securing the 1st position in the Bachelor of Software Engineering program at Arid Agriculture University.

**First Position Award for Final Year Project:** Recognized for developing the best final year project in the field of Software Engineering at Arid Agriculture University.

RELEVANT COURSEWORK

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**Major coursework:** Data Structures and Algorithms, Object-Oriented Programming, Software Engineering Principles, Database Systems, Operating Systems, Web Development, Mobile Application Development, Artificial Intelligence, Machine Learning, Cloud Computing, Distributed Systems, Computer Networks, Cybersecurity, Internet of Things (IoT), Human-Computer Interaction

**Minor coursework:** Discreet Structure, Linear Algebra, Probability and Statistics, Software Architecture and design

EDUCATION

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**Nordhausen University Of Applied Sciences**

*M.Sc. in Computer Engineering Internet of things; –*  
*GPA: 1.0/1.0*

**PMAS Arid Agriculture University**

*B.S Software Engineering; –*  
*GPA: 3.92/4.0*

FYP: [Project Alliance](#) – Win 1st Position in University

Nordhausen, Germany

*Oct 2024 – Present*

*Expected Graduation: Oct 2026*

Rawalpindi, Pakistan

*Gold Medalist, 1st Position in University*

## LANGUAGES

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**English** | Professional Proficiency

**Urdu** | Native

**German** | Basic Level (A1)