



MUHAMMAD SHAH

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SUMMARY

Software engineer with hands-on experience building scalable web applications using Next.js, TypeScript, and Node.js. Strong in backend development, API design, and performance optimization. Selected for the Mitacs Globalink Research Internship (Canada) to work on AI-powered systems and data-driven platforms, with growing focus on cloud-native and distributed systems.

WORK EXPERIENCE

Full Stack Developer | Semicolon Solutions, PK **Sep 2025 – Jan 2026**

- Developed and maintained full-stack applications using Next.js and TypeScript, focusing on building scalable, high-performance user interfaces and backend APIs.
- Collaborated with the development team to implement responsive designs, optimize application performance, and integrate RESTful and third-party APIs.

Network Administrator Intern | National University of Modern Languages Islamabad, PK **Aug 2025 – Sep 2025**

- Assisted in maintaining and troubleshooting the university's network infrastructure, including LAN/WAN connectivity, routers, and switches to ensure stable network performance
- Provided technical support for video conferencing systems, network security configurations, and day-to-day IT operations across multiple departments.

Front-End Developer Intern | Human Care Foundation Pakistan **Mar 2024 – Sep 2024**

- Developed and optimized user interfaces for web applications using React.js, ensuring responsive and accessible designs across devices.
- Collaborated with backend developers and designers to integrate APIs and improve overall user experience.
- Contributed to code reviews, UI enhancements, and performance optimization to maintain clean and efficient front-end architecture.

EDUCATION

BSCS (4 Years) | National University of Modern Languages Islamabad, PK **Feb 2022 - Jan 2026**

CGPA: 3.46/4.00 | Equivalent to 16 Years Education | EQF Level: 6

- Studied core CS subjects including **DSA**, **OOP**, **DMBS**, **Computer Networks**, **AI/ML**, **Information Security**, and **Software Engineering**, with strong performance in both theoretical and practical coursework.
- Currently developing a **Blockchain-based Affidavit issuance and Verification System (AffidBlock)** as the Final Year Project, focused on secure, transparent, and decentralized Affidavit record handling using smart contracts.

ICs (Intermediate in Computer Science) | Islamabad College for Boys G-6/3 **Aug 2019 - Sep 2021**

Score: 911/1100 (83%) | Equivalent to 12 Years Education | EQF Level: 4

- Completed Intermediate in Computer Science (ICS) from Islamabad College for Boys, with core coursework in **Computer Science**, **Mathematics**, and **Physics**, building a strong foundation for advanced computing studies.

PROJECTS

AffidBlock - Blockchain-Based Affidavit Issuance & Verification System | NUML University IBD **Sep 2024 – Dec 2025**

- Developed a blockchain-powered platform as Final Year Project (FYP) for **affidavit issuance and verification using QR codes** to issue affidavits, prevent fraud, detect fake affidavits, and ensure authenticity through decentralized verification.
- Tech Stack:** Next.js , Solidity ,Ethereum, Smart Contracts, TypeScript, MongoDB, QR Code Integration
- Link:** [System Hosted Locally, Demo can be provided on Video Call](#)

- Built a full-stack Next.js web platform for tracking assessments, visualizing performance, and managing results through an intuitive, responsive UI.
- **Tech Stack:** Next.js, TypeScript, MongoDB, Tailwind CSS, Authentication & Routing
- **Link:** <https://leadbetter-delta.vercel.app/>

GLocal Travel – Next.JS Based Hajj, Umrah & Travel Mgmt System | Semicolon Solutions

Jul 2025

- Created a responsive Next.js-based web application for managing travel bookings, packages, and pilgrim services with secure data handling and smooth user experience.
- **Tech Stack:** Next.js, TypeScript, MongoDB, Tailwind CSS, Authentication & Routing
- **Link:** <https://g-local-travels.vercel.app/>

ADDITIONAL INFORMATION

- **Technical Skills:**

Languages : JavaScript (ES6+), TypeScript, Python, C++, C#, Java, Bash

Frontend: React.js, Next.js, Tailwind CSS, SCSS

Backend: Node.js, Express.js, REST APIs

Database: MongoDB, MySQL

Cloud & DevOps: Azure (Fundamentals), Cloud Deployment (Learning)

Blockchain: Solidity, Ethereum, Ethers.js, Ganache

Tools: Git, GitHub, Postman

Concepts: Distributed Systems Fundamentals, Microservices, Scalable Architecture, Authentication, Cryptography, Artificial Intelligence Fundamentals, Machine Learning Basics, Data Processing Concepts

- **Languages:** Urdu (Native) | Pashto (Native) | English (Fluent) | German (Beginner) | French (Beginner)

- **Major Courses & Certifications:**

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| ○ Google CyberSecurity Specialization – Google Coursera  | Nov 2025 |
| ○ Ethical Hacking Specialization - Coursera  | Jun 2025 |
| ○ Advanced Ethical Hacking & Cybersecurity – LearnKarts, Coursera  | Jun 2025 |
| ○ DDoS Attacks and Defenses – University of Colorado, Coursera  | Jun 2025 |
| ○ Ethical Hacking Essentials(EHE) -EC-Council, Coursera  | Jun 2025 |
| ○ Meta Front-End Developer Specialization - Coursera  | Jan 2025 |
| ○ Full Stack Developer – NAVTCC Pakistan  | Dec 2024 |
| ○ Version Control- Meta, Coursera  | Oct 2023 |