

Hamza Shah

Software Developer & Engineer

CONTACT

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Islamabad, ICT

GitHub:

<https://github.com/Hamza1s34>

SKILLS

- JavaScript & TypeScript Programming
- RESTful APIs Development
- React.js & React Native
- API Integration
- Cryptography
- AI & ML
- Cloud & DevOps
- Python Programming
- Blockchain Development

LANGUAGES

- English, Conversational
- Urdu, Advanced

PROFESSIONAL SUMMARY

Innovative Full Stack Developer with strong expertise in building modern web applications and secure backend systems. Experienced in frontend technologies, real-time communication, email handling, end-to-end encryption, and cloud deployment. Proven collaborator with a focus on clean code, performance, and delivering high-impact solutions.

EXPERIENCE

Full Stack Developer

Lumarion

May 2026 – Present

- Working on the frontend using Next.js with React Query for efficient data fetching, caching, and state management.
- Developing backend with real-time socket connections for seamless communication.
- Handling email services including sending, verification, and management.
- Implementing end-to-end encryption using ECC (Elliptic Curve Cryptography) to ensure secure data transmission.
- Managing and deploying cloud infrastructure on Oracle Cloud.
- Currently in development phase with continuous feature enhancements and performance optimization.
- Using Git for version control and collaboration with proper branching and versioning practices.
- Following Figma UI/UX designs to build responsive and user-friendly interfaces.

Senior Software Developer

Qbitcoin, Islamabad, ICT

Jan 2024 – Feb 2026

- Core Blockchain & Node Architecture:** Built a quantum-resistant blockchain in Python, including full node implementation, P2P networking, and JSON-RPC/gRPC API endpoints for wallet, explorer, and exchanges integration.
- Cloud Infrastructure & DevOps:** Architected and deployed production infrastructure on Linux, Oracle Cloud, AWS, and Azure using Git for version control, Nginx reverse proxy, and PM2 process management.
- Cross-Platform Applications & Web Interface:** Developed desktop wallet, mobile wallet (React Native), and blockchain explorer applications.
- Post-Quantum Cryptography:** Implemented Falcon-512 lattice-based digital signatures, replacing ECDSA and securing the protocol against quantum attacks. Designed and implemented key generation, signing, and verification pipelines.

EDUCATION

Islamabad College for Boys

Islamabad

ICS (Computer Science)