

Muhammad Shahis

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PROFESSIONAL SUMMARY

Java Backend Engineer with hands-on experience building **multi-chain blockchain systems** supporting 20+ networks. Final-year CS student with solid foundations in **system design, data structures, and distributed architecture**. Skilled in Spring Boot, REST API development, and secure authentication. Seeking backend or full-stack engineering roles to apply and grow these skills.

TECHNICAL SKILLS

Languages:	Java (Core, Java 8+), JavaScript, SQL
Backend:	Spring Boot, Spring MVC, Spring Security (JWT, OAuth2), JPA/Hibernate, REST APIs
Database:	MySQL, Query Optimization, JPA/Hibernate ORM
Blockchain:	Web3j, Bitcoinj, Ethereum Smart Contracts, IPFS, Distributed Systems
Frontend:	HTML5, CSS3, JavaScript, React
Testing:	JUnit, Mockito, Postman (API testing)
DevOps & Tools:	Git, GitHub, Docker, Maven, Swagger, Linux/Bash, GitHub Actions
Cloud (Basic):	AWS (EC2, S3 — familiar), deployment concepts
CS Fundamentals:	OOP, Data Structures & Algorithms, Multithreading, Design Patterns, System Design

EDUCATION

Bachelor of Science in Computer Science (BSCS) University of Mianwali	<i>Expected 2026</i>
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems, Software Engineering, Object-Oriented Programming, Web Development	
Intermediate in Computer Science (ICS) Govt. Higher Secondary College (M&LW), Makerwal	<i>2020 – 2022</i>

PROFESSIONAL EXPERIENCE

Blockchain Backend Engineer — Freelance <i>Dook-Gold Multi-Wallet System</i>	<i>4 Months</i> <i>Technologies: Spring Boot, Web3j, Bitcoinj, JWT, OAuth2</i>
- Designed and implemented a scalable backend architecture supporting 20+ blockchain networks, enabling multi-chain wallet operations from a single unified API - Developed 15+ REST API endpoints for transaction processing, validation, and blockchain node communication - Applied secure key management using mnemonic-based (BIP-39) wallet generation across multiple chains - Implemented JWT + OAuth2 authentication with role-based access control, reducing unauthorized access risk	

PROJECTS

Career Key — Decentralized Degree Verification System (FYP) <i>Spring Boot, Ethereum, Solidity, IPFS, SHA-256</i>	 Repository
- Built a blockchain-based credential verification platform eliminating need for centralized authority - Integrated IPFS decentralized storage with SHA-256 hashing for tamper-proof document persistence - Developed Ethereum smart contracts for trustless, automated degree verification workflows - Designed REST APIs consumed by a React frontend for seamless credential submission and lookup	
Dook-Gold — Multi-Wallet Blockchain System <i>Spring Boot, Bitcoinj, Web3j</i>	 Repository
- Engineered modular backend services for multi-chain wallet lifecycle management (create, import, transact) - Designed a clean API layer with Swagger documentation for wallet operations across chains	
Blog App — REST API Backend <i>Spring Boot, Spring Security, MySQL, JPA</i>	 Repository
- Built full CRUD RESTful API with JWT authentication and role-based authorization (Admin/User) - Applied layered architecture (Controller → Service → Repository) for maintainability and testability	
Smart Contact Manager <i>Spring Boot, Spring MVC, Thymeleaf, MySQL</i>	 Repository
- Implemented secure user authentication, session management, and access control using Spring Security - Applied MVC design pattern with clean separation of concerns across layers	
JavaFX Encryption Tools Suite <i>Java, JavaFX, Cryptography</i>	
Built interactive desktop tools demonstrating AES, RSA, and Caesar cipher algorithms with live visualization	