

# Muhammad Shahis

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## PROFILE

Aspiring Software Engineer & Blockchain Developer specialized in the Java Spring Boot ecosystem and Decentralized Finance (DeFi). Proven track record of building secure, scalable backend architectures and multi-chain wallet systems. Passionate about bridging the gap between traditional enterprise systems and Web3 technologies.

## EDUCATION

- 🎓 Bachelor of Science in Computer Science (BSCS) | University of Mianwali  
Expected Graduation: 2026 | Mianwali, Pakistan
- 🎓 Intermediate in Computer Science (ICS) | Govt. Higher Secondary College (M&LW)  
2020 – 2022 | Makerwal, Mianwali

## SKILLS

### 🔧 Technical Skills

#### Core Java & Object-Oriented Programming

- Strong command over **Object-Oriented Programming (OOP)** concepts: *Inheritance, Polymorphism, Encapsulation, Abstraction*
- Solid foundation in **Data Structures & Algorithms (DSA)**
- Expertise in **Java Collections Framework**: *List, Set, Map*, and **Stream processing**
- **Java 8+ Features**: *Lambda Expressions, Stream API, Functional Interfaces, Optional, Date & Time API*
- **Exception Handling, File I/O, Multithreading & Concurrency, Generics**
- **JavaFX & Swing**: Desktop applications including encryption visualizers and interactive simulations

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#### Spring Boot & Backend Development

- **Spring Boot** for building scalable and secure backend applications
- **Spring MVC**: RESTful API development using *Controller–Service–Repository* architecture
- **Spring Security**: Authentication & authorization using *Form Login, JWT, OAuth 2.0*
- **Spring Data JPA / Hibernate**: Entity mapping, relationships, CRUD operations, and performance optimization
- **Spring Validation, AOP, Actuator**, and externalized **Configuration Management**
- **Database Integration**: MySQL with JPA/Hibernate
- API documentation & testing using **Postman** and **Swagger (OpenAPI)**

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#### Blockchain & Web3 Development

- **Web3j (Ethereum SDK)**:
  - Smart contract interaction
  - Wallet generation using mnemonic phrases

- Transaction creation and management
  - **Bitcoinj Library:**
    - Bitcoin wallet creation
    - Transaction signing and broadcasting
  - **Multi-chain Support:** Ethereum and Bitcoin-based networks
  - Secure **private key management**, transaction signing, and blockchain security best practices
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## Frontend Development

- **HTML5, CSS3, JavaScript (ES6+)**
  - **React (Basic)** for component-based UI development
  - Responsive UI design and seamless **API integration with Spring Boot backends**
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## 🔧 Tools & Technologies

- **Version Control:** Git, GitHub
  - **Build & Dependency Management:** Maven
  - **Containerization:** Docker (Basic)
  - **API Tools:** Postman, Swagger
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## PROJECTS

### ❖ Career Key — Decentralized Document Verification System for HEC (FYP)

**Tech Stack:** Spring Boot, Web3j, Ethereum Smart Contracts, IPFS, MySQL

**Live:** 🌐 <https://hec-nexus.netlify.app/>

**Frontend Repo:** 📁 [https://github.com/Shahiskhan/career\\_key\\_frontend](https://github.com/Shahiskhan/career_key_frontend)

**Backend Repo:** 📁 <https://github.com/Shahiskhan/career-key-backend>

- Blockchain-based degree attestation & verification platform
  - Document hashing (SHA-256) with secure storage on IPFS
  - Smart contracts for verification records on Ethereum
  - Spring Boot backend integrated with blockchain APIs
  - Final Year Project (FYP)
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### Dook-Gold — Multi-Wallet Blockchain System

**Tech Stack:** Spring Boot, Web3j, Bitcoinj, MySQL, JWT, OAuth 2.0, HTML, CSS, JavaScript

**Live:** 🌐 <https://doog-gold.netlify.app/>

**Repo:** 📁 <https://github.com/Shahiskhan/Dook-gold>

- Multi-wallet system supporting up to 20 blockchains
  - Wallet generation using mnemonic phrases
  - Transaction management for 12–13 blockchain networks
  - Secure APIs with JWT & OAuth 2.0
  - Basic wallet management frontend
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## Smart Contact Manager

**Tech Stack:** Spring Boot, Spring Security, MySQL

**Live:** 🌐 <https://smart-contact-manager.onrender.com> (Not yet)

**Repo:** 📁 <https://github.com/Shahiskhan/SmartContactManager>

- Secure contact management with user authentication
  - Role-based access control using Spring Security
  - CRUD operations with MVC architecture
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## Blog App — Backend REST APIs

**Tech Stack:** Spring Boot, Spring Data JPA, JWT, MySQL

**Live:** 🌐 <https://blog-api-demo.onrender.com>

**Repo:** 📁 <https://github.com/Shahiskhan/Blog-app-backend>

- REST APIs for users and blog posts
  - JWT-based authentication & role management
  - Clean and scalable backend architecture
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## 🌿 Nature Daily — Wisdom & Bounty Platform

**Tech Stack:** React (Vite), Tailwind CSS, Framer Motion, React Router, Swiper.js

**Live:** 🌐 <https://nature-daily-wisdom-bounty>

**Repo:** 📁 <https://github.com/Shahiskhan/Nature-s-Daily-Wisdom-Bounty>

- Modern, interactive web platform focused on **nature awareness and wellness**
  - **1000+ searchable daily nature facts** with clean and immersive UI
  - **Seasonal food calendar** for fruits & vegetables (month-wise)
  - Health & wellness insights based on **science-backed nature benefits**
  - High-quality **nature gallery** and **plant encyclopedia cards**
  - Fully responsive UI with smooth animations and fast performance
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## Semester Projects

1. **RetailHub — Backend APIs**  
Robust and scalable E-commerce backend APIs built with Spring Boot.  
Repo:  [RetailHub-Backend-APIs](#)
2. **Simple Cipher Tool — JavaFX**  
Interactive desktop app for visualizing basic cryptographic algorithms.  
Repo:  [Simple-Cipher-Tool-JavaFX](#)
3. **Enigma Machine Simulator — JavaFX**  
Historically accurate Enigma machine simulator with step-by-step encryption.  
Repo:  [Enigma-Machine-Simulator](#)
4. **AES Encryption Visualizer — JavaFX**  
Desktop app to visualize step-by-step AES encryption for learning purposes.  
Repo:  [AES-ENCRRYPTION-VISUALIZER](#)

## Strengths

- Strong understanding of **Java internals** and the **Spring ecosystem**
- Passionate about **blockchain, security, and decentralized systems**
- Excellent **problem-solving** and **research-oriented** mindset
- **Fast learner** with a practical, hands-on development approach

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## Career Objective

To work as a **Full-Stack Java & Blockchain Developer**, building **secure, scalable, and innovative systems** using **Spring Boot** and **Web3 technologies**, while applying strong software design principles to solve real-world problems in the **education and finance** domains.