LOTFULLAH MUSLIMWAL

Software Engineering Student
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SUMMARY

Software Engineering student at Bahria University with hands-on experience building full-stack web applications and ML-powered systems. Developed 3 production-ready projects including an e-commerce platform with AI recommendations and an FYP automation system serving 100+ students. Completed technical simulations at JPMorgan Chase (Spring Boot microservices, Kafka), British Airways (predictive modeling, 84% accuracy), and Deloitte (data analytics). Proficient in React.js, Python, Flask, MySQL, and MongoDB. Seeking Summer 2026 software engineering internship to contribute to scalable, user focused products.

EDUCATION

Bahria University, Islamabad Campus
Bachelor of Software Engineering | Sept 2023 – Expected May 2027

PROJECTS

Wonderland Toy Store – Full-Stack E-Commerce Platform

React.js, Python Flask, MySQL, Machine Learning | Nov 2025 – Jan 2026
[GitHub](#)

- Built full-stack e-commerce web application with responsive UI, categorybased inventory management, and secure shopping cart
- Implemented AI-driven product recommendation engine using collaborative filtering with scikit-learn
- Developed admin dashboard for inventory management, order processing, and promotional campaign tracking
- Designed RESTful API architecture with Flask, MySQL database schema with normalized tables, and JWT authentication

FYP Process Automation & Management System

React.js, Python Flask, MySQL, Process Automation | Oct 2025 – Dec 2025
GitHub

- Developed digital platform automating complete Final Year Project lifecycle serving 100+ students and faculty
- Streamlined student submissions, supervisor assignment, progress tracking, and multi-level approvals with role-based access control
- Implemented workflow automation reducing administrative overhead by 70% compared to manual paper-based system
- Built RESTful backend API with Flask and designed relational database schema supporting complex academic workflows

AI-Based Self Learning App (Study Planner & Progress Tracker)

Python, Flask, Machine Learning | Oct 2025 – Nov 2025
GitHub

- Built AI-powered self-learning platform with intelligent scheduling algorithms and personalized learning path recommendations
- Implemented progress tracking dashboard with data visualization using Chart.js for student performance analytics
- Designed adaptive learning system that adjusts study plans based on user completion rates and assessment scores

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TECHNICAL PROGRAMS & SIMULATIONS

JPMorgan Chase – Software Engineering Virtual Program (Forage)

December 2026

- Developed Spring Boot microservice integrating Kafka for real-time transaction processing and message deserialization
- Built data persistence layer using Spring Data JPA and H2 SQL with entity modeling and transactional balance management
- Integrated external REST API for incentive processing and created query endpoints with JSON responses
- Tested and validated system using Maven and debugging tools across all integration points

Technologies: Spring Boot, Kafka, Spring Data JPA, H2 SQL, RestTemplate, Maven

British Airways – Data Science Virtual Program (Forage)

January 2026

- Scraped and analyzed 1,000+ customer reviews using Python and BeautifulSoup to identify service improvement patterns
- Built predictive model using scikit-learn to identify factors influencing booking behavior, achieving 84% classification accuracy
- Performed exploratory data analysis and feature engineering on customer behavior datasets with Pandas and NumPy

Technologies: Python, Pandas, scikit-learn, BeautifulSoup, Matplotlib, NumPy

Deloitte Australia – Data Analytics Virtual Program (Forage)

May 2026

- Analyzed business datasets and created interactive dashboard using Tableau for executive-level data visualization
- Performed data classification and trend analysis in Excel to support business decision-making and forensic investigations
- Applied statistical analysis techniques to identify data patterns and anomalies in financial datasets

Technologies: Tableau, Excel, Data Visualization, Statistical Analysis

Deloitte Australia – Technology Consulting Virtual Program (Forage)

June 2025

- Designed technical proposal for analytics dashboard development including system architecture and implementation roadmap
- Documented comprehensive system requirements and technical specifications for stakeholder communication

Technologies: Technical Writing, System Design, Requirements Analysis

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TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), Java, SQL, HTML5, CSS3

Frontend: React.js, Responsive Design, Component Architecture **Backend:** Flask, Spring Boot, REST APIs, Microservices

Databases: MySQL, MongoDB, H2 SQL, Database Design

ML/AI: scikit-learn, Pandas, NumPy, Predictive Modeling, Data Analysis

Tools & Platforms: Git/GitHub, Maven, Kafka, Tableau, Visual Studio Code

Software Development: Agile/SDLC, Object-Oriented Programming, Test-Driven Development, API Design

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ADDITIONAL INFORMATION

GitHub Portfolio: github.com/lotfullahmsl – 50+ repositories featuring full-stack web applications, ML, and AI implementations.

Languages: Pashto (Native), Dari (Native), English (Fluent), Urdu (Fluent)