Muhammad Zafar Ali

Full-Stack Developer — MERN + AI/ML Specialist

Lahore, Pakistan

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Summary

Computer Science professional in the **final semester** of BSCS with strong expertise in AI, Data Science, and Full-Stack (MERN) Development. Developed dynamic web applications such as Wanderlust (Airbnb-style travel app), Zerodha trading platform clone, My-Space productivity app, and AI/ML models including Naive Bayes classifiers. Certified in Artificial Intelligence, Data Science, and Generative AI, with practical experience integrating AI Agents and backend systems.

Skills & Abilities

Frontend Development: React.js (Good), HTML5 (Strong), CSS3 (Strong), JavaScript (Strong), Bootstrap (Good)

Backend Development: Node.js (Strong), Express.js (Strong), MongoDB (Good), REST APIs (Good)

Programming Languages: Python (Strong), JavaScript (Strong), C++ (Basic), C (Basic)

Machine Learning & AI: Naive Bayes (Good), Regression (Good), Classification (Good), Clustering (Basic), AI Agents (LangChain, RAG) (Good)

Data Science Tools: Pandas (Strong), NumPy (Strong), Scikit-learn (Good), TensorFlow (Basic), PyTorch (Basic), Jupyter Notebook (Strong)

Other Tools & Platforms: Git/GitHub (Strong), VS Code (Strong), AWS Bedrock (Good), n8n Automation (Good)

Experience

Cortexis Solution Hub (Remote) — Aug 2025 – Sep 2025
Full Stack Developer Intern

- Developed **My-Space**, a full-stack web application integrating weather API, live location, automatic quote generator, and note builder.
- Delivered 9+ mini full-stack projects using React.js, Node.js, and Express.js.
- Optimized backend performance and enhanced UI using modern React and Express patterns.

Developers Cohub (Remote/Lahore) — Mar 2025 – May 2025
MERN Stack Developer Intern

- Built and maintained responsive and dynamic web interfaces using React.js and REST APIs.
- Developed backend logic using Node.js, Express.js, and MongoDB for CRUD-based applications.

PEL (Lahore, Pakistan) — Aug 2024 – Oct 2024
Full Stack Developer Intern

- Contributed to a full-stack eCommerce web application using React.js, Node.js, Express.js, and MongoDB.
- Implemented authentication, product management, cart functionality, and admin dashboard.
- Collaborated with senior developers on deployment via Render and GitHub version control.

Education

University of Education — In Progress
Bachelor of Science in Computer Science (BSCS) — Final Semester — *CGPA: 3.5 / 4.0*

Projects

Wanderlust Travel Platform (Airbnb-Style Web Application) | *MERN Stack*

- Developed a travel booking application with authentication, property listings, hotel reviews, and booking system.
- Designed clean Airbnb-style UI with dynamic functionality and database integration.

Zerodha Clone (Trading Platform) | *MERN Stack*

- Created a trading platform clone with live stock data, order management, and real-time dashboard.
- Implemented complete backend APIs and state management using React and Express.

My-Space Full-Stack App | *React.js, Node.js, Express.js, Bootstrap*
- Developed a productivity application with live weather, location tracking, daily quotes, and a note builder.
- Designed fully responsive UI with clean component structure.

Generative AI in AWS Bedrock | *LLMs, API Integration*
- Built generative AI workflows using AWS Bedrock foundation models for automation and text generation.
- Integrated AI pipelines within existing applications using REST APIs.

n8n Automation Workflows | *RAG, APIs*
- Implemented Retrieval-Augmented Generation (RAG) pipelines for content generation and support bots.
- Created LinkedIn Post Generator and AI-based Customer Support workflows using n8n + AI Agents.

Naive Bayes Text Classifier | *Python, Scikit-learn*
- Implemented text classification model using Naive Bayes achieving high accuracy.
- Processed real-world dataset with Python, Pandas, NumPy, and Scikit-learn.

Certificates

Generative AI in AWS Bedrock Certificate

Cortexis Solution Hub Internship Certificate

MERN Stack Development Certificate – Knowledge Gate

Data Science Certificate – Udemy

Data Analytics Certificate – Analytix Camp

Developers Cohub Internship Certificate

PEL Internship Certificate

Communication

Strong written and verbal communication skills, able to collaborate effectively, explain technical concepts clearly, and contribute efficiently to team-based projects.