

Muhammad Talal Akhtar

Junior Software Developer | Problem Solver | AI & Automation Enthusiast

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<https://github.com/Talal-Akhtar>

SUMMARY

Software developer with hands-on experience building full-stack applications and solving practical problems through structured software design. Experienced in developing REST APIs, designing database relationships, implementing authentication, debugging applications, and improving application performance. Interested in applying software development and problem-solving skills to AI-assisted tools, workflow automation, and internal process improvement.

TECHNICAL SKILLS

Languages: JavaScript, Python, C++

Frontend: React.js, HTML5, CSS3, Responsive Design

Backend: Node.js, JWT Authentication, bcrypt

Databases: MongoDB + Mongoose

Core Concepts: Data Structures & Algorithms, OOP, Graph Theory, Stack/Queue

Tools: Git, GitHub, VS Code

Practices: Debugging, Performance Optimization, Code Reviews

PROJECTS

Personal Finance Tracker

Node.js | Express.js | React.js | MongoDB | JWT | REST APIs

- Architected a MERN application with secure JWT + bcrypt authentication, ensuring protected access to all users.
- Developed RESTful API endpoints for transaction management with structured JSON responses.
- Designed MongoDB schemas with Mongoose validation, enforcing data integrity and reducing invalid writes.
- Optimized API communication to reduce redundant requests and improve application responsiveness.

SendWise

n8n | LLMs | AI Automation | Workflow Automation

- Developed an AI-powered email automation system using n8n and LLMs to streamline email drafting, personalization, and delivery.
- Designed automated workflows connecting triggers, LLM processing, and email services to generate and deliver messages efficiently.
- Implemented context-aware email personalization to automate repetitive communication and produce tailored email content

Building Management System

Python | Django | SQLite | HTML5 | CSS3

- Designed a Django-based backend system for managing hostel operations, including student profiles, room allocation, fees, complaints, and visitor records.
- Designed relational data models using OneToOneField and ForeignKey relationships to connect users, students, rooms, fees, complaints, and visitor records.

EDUCATION

National University of Computer and Emerging Sciences (FAST-NUCES), Islamabad

Bachelor of Science in Computer Science