

# Ibrahim Ahmad Siddiqi

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## EDUCATION

National University of Computer & Emerging Science **FAST**

Islamabad, Pakistan

**Bachelor of Science, Software Engineering**

2022 - 2026

**Relevant Courses:** Web Engineering, DevOps, Applied AI, Software Design and Architecture

## ACADEMIC PROJECTS

**Collaborative Recipe & Meal Planner** (React, Node.js/Express, MongoDB, Docker/K8)

(05/2025)

- Built RESTful API with Express.js, JWT-based auth, and MongoDB schema design; enabled recipe CRUD, user permissions, and real-time comment/rating features.
- Developed responsive React frontend with weekly planner, and auto-generated shopping lists; containerized app with Docker and deployed on Minikube via GitHub Actions

**University Timetable Schedule** (Python, CSP, GA, NumPy)

(04/2025-05/2025)

- Built a class scheduling system using CSP and GA to handle hard and soft constraints. Applied MRV, forward checking, and backtracking for efficient search.
- Used GA with crossover, mutation, and fitness scoring to improve balance. CSP solved 60 courses in < 2 s, GA found near-optimal in 5s with 5% violations.

**Movie Recommending System** (ExpressJs, MongoDB, Postman, NodeJs)

(11/2024-12/2024)

- Built a robust backend with ExpressJs and MongoDB, featuring JWT authentication, user profiles, rating/review modules, and dynamic movie recommendations based on user preferences
- Documented RESTful APIs with Postman, emphasizing secure routing, efficient data modeling, and token-based communication.

**Rate-My-Professor** (Python, Js, NextJs, RAG, Pinecone, NLP)

(08/2024 – 08/2024)

- Developed Professor review system integrating RAG pipeline using Lang Chain and Llama Model for real-time, relevant query responses.
- A 4-member team in collaborative project implementation, ensuring seamless integration of system components. Achieved 80% human-evaluated relevance on 50 prompts, < 1s avg. response under load.

**Teacher Assistant & Lab Demonstrator Management** (.Net, SQL, C#)

(02/2024 – 5/2024)

- Developed system for managing & assigning teaching assistants, lab demonstrators, faculty profiles, course applications, and task assignments.
- Full-stack application leveraging C# .NET, SQL Server, and Windows Forms for robust desktop solution.

## CAMPUS COMMUNITY INVOLVEMENT

- Media Head - **Fast Software Engineering Society** (08/2023 - 05/2024)
- Technical Project Officer - **Google Developer Student Club** (08/2024 - 04/2025)
- Media Management Officer - **NASCON** (03/2024 - 03/2024)

## TECHNICAL SKILLS

- ExpressJs • NodeJs • MongoDB • JavaScript • Docker • Git • GitHub Actions
- Kubernetes • REST API • Python • Flask • AI • RAG • Google Cloud