

# Muhammad Sameer

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## EDUCATION

### FAST – National University of Computing and Emerging Sciences

Islamabad

BS Computer Science

2023 - 2027

- GPA: 3.41 | Dean's List: [Spring 2025 + Fall 2025]

- Relevant Coursework: Data Structures, OOP, Operating Systems, Database Systems, Algorithms

### Roots IVY International

River View Islamabad

Cambridge A Levels

2021 - 2023

## SKILLS

- **Languages:** Python, C/C++, SQL, JavaScript, HTML/CSS, Assembly
- **Tools and Frameworks:** React.js, Next.js, React-Native, TailwindCSS, .NET, Docker, n8n, Expo
- **Databases:** PostgreSQL, SQL Server, MongoDB, Supabase
- **Concepts:** OOP, Data Structures & Algorithms, Multithreading, IPC, CRUD Operations
- **Environments and Deployment:** Windows, Linux, Bash, Git/GitHub, Vercel

## PROJECTS

### BusIn – University Bus Tracking App | React-Native Expo Figma

- Developing a real-time bus tracking application to address daily miscommunication between students and university transport, aiming to reduce delays and improve coordination.
- Implementing location tracking and live updates using React Native and Expo.

### AI Resume Tailor | Next.js TypeScript TailwindCSS Supabase MongoDB n8n Vercel

- Built a web app that generates personalized resumes using dynamic forms and server-side logic.
- Integrated Gemini AI via n8n to craft tailored resume summaries and content based on user input.
- Used MongoDB to store and retrieve user data, enabling resume editing without re-entry.

### GitLite – Git Clone | Data Structures C++ Team Project

- Implemented core Git features using balanced trees: AVL, B-tree, and red-black tree structures.
- Added Merkle-tree snapshots and SHA-256 hashing for content integrity and history verification.
- Optimized object storage and lookup to achieve logarithmic performance.

### AirControlX – OS Simulation | C / C++ Multithreading Inter Process Communication Scheduling

- Simulated an air traffic control system using process scheduling and synchronization.
- Implemented threads, semaphores, and inter-process communication.

### AI Video Content Automation | n8n Gemini API Deepseek API Azure TTS YouTube API

- Reduced manual video creation and publishing time by 95% through a fully automated workflow.

## EXPERIENCE

### Nexium

Jul. 2025 – Aug. 2025

Remote

Software Development Intern

- Built web apps using Next.js, TailwindCSS, and Supabase, deployed via Vercel.
- Designed and automated workflows using n8n to integrate APIs and streamline processes.
- Gained hands-on experience with modern dev stacks, cloud deployment, and automation tools.

## LEADERSHIP AND EXTRACURRICULAR

### Community Project Lead

Sep. 2024 – Nov. 2024

- Organized and led plantation drives and school awareness campaigns as part of 8-week community initiative

### Competitive Programming Participant

Oct. 2024 – Feb. 2025

- ICPC On-Site Qualifier (GIKI) - Qualified for 2024 regional contest

## CERTIFICATIONS AND ACHIEVEMENTS

- Python for Data Science, AI & Development

IBM | 2024

- German A1 Certification

Goethe Institut

- Hall of Fame Award + 6x Academic Excellence Award

Roots International Schools