

Tabish Ahmed

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EDUCATION

Modern Education Society's Wadia College Of Engineering

Bachelor of Engineering in Computer Science

Pune, Maharashtra

Aug 2023 - May 2027 (Expected)

- **CGPA:** 8.2/10
- **Related Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Web Development.

EXPERIENCE

Zulip

Remote

Open Source Contributor

July 2026 – Present

- Optimized Zulip notification queries, **reducing database calls by 80% (10 → 2)** while preserving behavior.
- Optimized profile field updates using **Django ORM batching**, reducing database queries by **70% (44 → 13)**.
- **Technology Stack:** Python, PostgreSQL, Django ORM, pytest, Git.

MSEDCL (Academic Collaboration under faculty mentorship)

Pune, Maharashtra

Project Intern

Jan 2025 – June 2025

- Built a **real-time administrative dashboard** for managing employee, inventory, and assignment records.
- Integrated **PostgREST APIs** between the **Android** application and PostgreSQL backend, reducing synchronization issues by **80%**.
- Maintained modular code using **Git** and authored technical documentation to support concurrent development.
- **Tech Stack:** TypeScript, Vite, PostgreSQL, PostgREST, Kotlin, Android, Tailwind CSS.

PROJECTS

Practice Judge - Online Coding Platform | [Live](#)

- Built a full-stack online judge (React/TS, Supabase, Judge0) supporting **3 languages** with sandboxed execution and **RLS-secured 10-table Postgres schema**.
- Engineered async judging with **Edge Functions + Judge0 callbacks + Realtime**, reducing calls to **2/submission**.
- Built admin tooling for bulk testcase imports and reference-solution validation, enabling **100+ problem ingestion**.
- **Technology Stack:** TypeScript, Supabase (Postgres, Auth, Edge Functions, Realtime), Judge0, Docker, Node.js.

Azure Distributed Task Processing System - Cloud-Native Task Orchestration | [Github](#)

- Built a **.NET 8 ASP.NET Core API** with **Azure Functions** for asynchronous queue-based task processing.
- Built a **React 18 + TypeScript** frontend for task submission, status polling, and result previews via a dedicated API.
- Set up **GitHub Actions CI** across 3 projects with **xUnit + Moq**, and code coverage to catch regressions pre-merge.
- Implemented **8 task types** (Markdown → HTML, image/PDF processing, OCR) via a plugin-style handler registry on **Azure Blob + Queue Storage**, with **~60%+ image compression**.
- **Technology Stack:** C#, .NET 8, ASP.NET Core, Azure Functions, Azurite, Vite, TailwindCSS, xUnit/Moq, GitHub Actions.

UCI Chess Engine | [Github](#)

- Built a **UCI-compliant C++17 chess engine** with multithreaded **alpha-beta search** (iterative deepening, PVS, null-move/LMR/futility pruning, transposition tables), validated via Perft to **119M+ nodes**.
- Trained a **custom PyTorch eval network**, exported to native binary, benchmarked via automated self-play A/B testing. Implemented **SEE** and **magic-bitboard** move generation, validated against **640,000+** randomized correctness checks.
- **Technology Stack:** C++, Neural Network Integration, Python.

SKILLS

- **Programming:** C++, Python, Java, C#, SQL, Bash.
- **Tools and Frameworks/Libraries:** Git, Docker, .NET 8, ASP.NET Core Web API, Azure Functions, Flask, Django, React, NextJS.
- **Databases:** PostgreSQL, SQLite3, MySQL.

ACHIEVEMENTS AND LEADERSHIP

- **President of Coding Club:** Led a coding club of 15+ members, hosting academic events, conducting sessions on **DSA & Problem Solving**.

Competitive Programming

- **Candidate Master (1923)** at Codeforces [@noxious_tab](#).
- **4 Stars (1959)** at CodeChef [@noxiousab](#).
- **4 Stars (1969)** on GFG [@noxious_tab](#).

Security / CTF

- Rated **Pro Hacker** at HackTheBox.
- Achieved country rank **#2** on the platform.
- Rooted over **55+** machines with difficulty medium–hard.