MUHAMMAD MAHAD

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OBJECTIVE

Seeking an entry-level Software Engineer role where I can apply my problem-solving skills, build scalable and impactful software, and continuously learn while contributing to real-world products and engineering teams.

EDUCATION

Jamia Millia Islamia, New Delhi, India *Jul 2023 — Aug 2025*
M. Tech in Computer Engineering *GPA: 3.62*

Birla Institute of Applied Sciences, Bhimtal, India *Jun 2019 — Jun 2023*
B. Tech in Computer Science Engineering *GPA: 3.16*

PROJECTS

Murmur : B2B AI-Powered Collaboration Platform | Next.js 16, TypeScript, Neon Postgres, Cloudflare Durable Objects, OpenRouter AI-model, Kinde, Arcjet, Vercel.

- Built a **production grade B2B AI SaaS** enabling organization-based workspaces, channels, threads, reactions, and real-time presence, providing a powerful environment for effortless team communication.
- Implemented **real-time messaging and presence** using **Cloudflare Durable Objects**, ensuring low-latency updates, consistent state synchronization, and reliable collaboration.
- Applied **optimistic UI updates with TanStack Query**, ensuring instant feedback for messaging and emoji reactions while maintaining server-state consistency in real-time environments.
- Integrated **AI, powered by OpenRouter**, enabling instant thread summarization and AI-assisted message drafting and grammar refinement, reducing manual correction effort by **~60%**.
- Implemented core messaging features such as **reverse scrolling message history**, **inline message editing**, **rich-text formatting** for a seamless user experience.
- Added **subscription-based billing and self-serve customer portals**, supporting multiple pricing tiers in addition with **authentication**, **organization management**, and **member invitations** using **Kinde**, enabling seamless onboarding and workspace customization.
- Applied **enterprise-grade security** with **Arcjet - bot detection, DDoS protection, sensitive data shielding and rate limiting.** Secured image uploads via **uploadthing** and deployed the platform on **Vercel**.

Learnova : Learning Management System | Next.js 15, TypeScript, Neon Postgres, Stripe, Better-Auth, Arcjet, Vercel.

- Built a **modern LMS platform** using **TypeScript and Next.js 15**, enabling admins to create and manage courses while learners purchase, consume content, and track progress through a structured dashboard.
- Implemented **secure video and image upload** with **Tigris S3, presigned URLs, custom dropzone, and a custom video player**, ensuring scalable media delivery.
- Designed **role-based access control** with **admin and learner dashboards**, supporting course creation, and analytics visualization.
- Integrated **Stripe payments** for seamless course purchases, alongside **Neon Postgres and Prisma ORM** for data management.
- Applied **production-grade security** using **Arcjet - bot protections, rate limiting, and Vercel deployment**, delivering a fast, secure, and responsive user experience.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, SQL, C++
Frameworks & Utilities: Next.js, React, Node.js, Express, Prisma, MongoDB, PostgreSQL, Git, FastAPI, PyTorch, TensorFlow