Muhammad Hassam Mujahid

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Professional Summary

Results-driven Software Engineer with 3+ years of experience in MERN stack development. Specialized in designing scalable web applications, designing intuitive user interfaces, and optimizing database performance in Agile environments. Proven track record in modernizing legacy systems and integrating secure cloud-based solutions.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, C/C++, SQL, HTML5, CSS3
Frameworks & AI: Yii, React.js, Node.js, Express.js, Redux, React Query, Tailwind CSS, LangChain, RAG
Databases: MongoDB, PostgreSQL, Redis, MySQL, Supabase, Vector Databases
Cloud & DevOps: AWS (S3, EC2), Docker, CI/CD (GitHub Actions), Nginx, PM2
Tools & APIs: Git, Postman, Vite, Stripe API, Socket.io, Sentry, Zoom API, Google Calendar API, iThenticate

Experience

Software Engineer Mar 2023 – Feb 2026
Ilmversity *Lahore, Pakistan*

- Actively developed and scaled a cloud-based LAAMS (Learning Academic Administrative Management System) using the MERN stack (MySQL, Express.js, React.js, Node.js) for full-stack development.
- Maintained and optimized legacy academic modules built with the Yii (PHP) framework, ensuring backward compatibility and stable data migration to the modern MERN stack.
- Optimized backend performance using Redis caching, efficient MySQL query design (JOINs, subqueries, GROUP BY), and indexing strategies, improving response times and system throughput.
- Built and maintained RESTful APIs with dynamic query generation, delivering context-aware responses tailored to user roles, application configurations, and client platforms (web and mobile), ensuring secure and efficient backend communication.
- Built responsive and dynamic frontend interfaces using React.js, Redux, and modern JavaScript (ES6+), ensuring efficient state management and improved user experience.
- Implemented secure authentication and authorization mechanisms using JWT, role-based access control, and multi-factor authentication, along with Socket.io for real-time, secure communication.
- Established CI/CD pipelines using GitHub Actions and deployed scalable services on AWS (EC2, S3), ensuring reliable and automated delivery workflows.
- Monitored production systems, debugged live issues, and resolved server-side exceptions to maintain system stability for active users.
- Collaborated within an Agile development environment to design, develop, and deliver high-impact features.

Projects

LetsConnect – Scheduling Platform | *React, Node.js, MongoDB* Dec 2025 – Present

- Developed a cross-platform scheduling application enabling users to manage meeting links synchronized via Google Calendar API .
- Automated meeting generation utilizing the Zoom API and implemented complex logic for global time zone management.

CodeLens – AI Code Review Platform | *React, Node.js, PostgreSQL, Redis* Jan 2026 – Present

- Architected an AI-driven platform for automated code analysis, integrating GitHub OAuth and Webhooks to trigger review cycles upon pull request submissions.
- Implemented an asynchronous task queue using BullMQ and Redis to handle high-concurrency AI processing, providing structured feedback, linting, and quality scores.

Education

Information Technology University Lahore, Pakistan
Bachelor of Science in Computer Engineering *Dec 2019 – May 2023*

Awards & Extracurricular Activities

- **Cyber Security Hackathon:** Secured 2nd Position (Runner-up) (2022)
- **Google Code Rush:** Active Participant