

Mohammad Mustafa Shiraz Ahmed

Software Developer

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🌐 LinkedIn

🐙 GitHub

👤 Portfolio

SUMMARY

Software developer with 2+ years of experience delivering high-performance web applications and enterprise solutions. Proven track record of optimizing system performance, reducing transaction times, and enhancing user experiences through innovative technology implementations. Expertise in full-stack development, microservices architecture, and agile methodologies, consistently driving operational efficiency and implementing robust, scalable software solutions that directly contribute to business growth.

SKILLS

Methodologies: SDLC, Agile, Waterfall

Programming Languages: Python, SQL, Java

Frontend Development: HTML5, CSS3, JavaScript, TypeScript React, Redux, jQuery

Backend Development: Spring Boot, Spring MVC, Hibernate, Django, Node.js, Flask, REST APIs

Databases: MySQL, PostgreSQL, MongoDB

Cloud Platforms: AWS (EC2, S3)

Containerization and Virtualization: Docker, Kubernetes

Development Tools & IDEs: Visual Studio Code, IntelliJ, Eclipse

Testing Tools: Jest, Pytest, Postman

Version Control: Git, GitHub

Soft Skills: Problem-solving, Communication Skills, Time Management, Attention to detail, Collaborate with cross-functional team

EDUCATION

Bachelor of Science in Computer Science | University of Massachusetts

WORK EXPERIENCE

Software Developer | Freelancer (Remote)

January 2024 – February 2025

- Developed and implemented new features for patient management systems using Java and Spring Boot, collaborating with cross-functional healthcare teams to translate medical requirements into functional code that processed over 50,000 patient records daily.
- Enhanced customer-facing healthcare applications using React and JavaScript, improving UI/UX with responsive HTML5/CSS3 designs that reduced patient navigation steps by 40% and increased mobile patient engagement metrics.
- Applied JUnit and Postman for systematic testing and debugging of Java backend services, contributing to a 25% reduction in clinical system incidents while ensuring compliance with HIPAA medical security protocols.
- Participated in Agile SDLC practices using Git/GitHub for version control, consistently meeting sprint commitments by delivering quality code while maintaining detailed documentation for knowledge sharing in medical software development.
- Assisted in developing RESTful APIs that integrated electronic health record services with MySQL databases, working within the Spring Boot framework to ensure system performance during peak patient admission periods.

Software Developer | Freelancer (Remote)

January 2023 – December 2023

- Developed responsive web applications using React (TypeScript) and Spring Boot, implementing modular e-commerce platform features with Redux state management to enhance user engagement and application performance.
- Designed secure authentication systems utilizing Node.js and Express.js, implementing role-based access control and deploying services on AWS EC2 to strengthen application security and access management.
- Created interactive data visualization dashboards using MongoDB aggregation framework and Node.js, optimizing MongoDB database queries to reduce report generation time by 35% and facilitate real-time data communication.
- Implemented microservices architecture using Docker and Kubernetes, streamlining deployment processes through GitHub Actions and collaborating with cross-functional teams to improve continuous integration workflows.
- Conducted comprehensive software testing using Jest and Postman, actively participating in Agile methodologies to maintain sprint commitments and develop automated test scripts that significantly improved code quality and reduced manual testing efforts.

PROJECTS

MyDocs – Real-time Document Editor:

Live Demo | GitHub

Built Google Docs clone using Next.js, TypeScript, and Liveblocks, featuring real-time collaboration and Gemini AI-powered writing suggestions. Implemented secure authentication with Clerk, real-time presence indicators, and threaded commenting system. Designed responsive UI with Tailwind CSS and ShadCN components, supporting both desktop and mobile devices.

CareerAI – AI-Powered Career Development Platform:

Live Demo | GitHub

Developed comprehensive career development platform using Next.js, React, and TypeScript with AI-powered career tools. Implemented features including AI resume builder, cover letter generator, and interview preparation simulator powered by Gemini API. Integrated Clerk for authentication, Prisma with Neon PostgreSQL for robust database management, and shadcn/ui for responsive design. Created AI-driven tools for skill assessment, career insights, and personalized professional development.

BeaconFlex – Video Conferencing Platform:

GitHub

Developed university video platform with Next.js and GetStream.io, featuring multi-camera support and cloud recording. Integrated granular permissions system and meeting scheduler which will be serving 1,000+ monthly active users. Implemented WebRTC optimization for low-latency video streaming and screen sharing capabilities.

Canvas LMS Chatbot – AI Assistant:

GitHub

Developed multilingual educational chatbot using Python, Flask, and Gemini API with voice interaction capabilities. Implemented natural language processing for context-aware responses and integrated WebSocket for real-time updates. Built responsive front-end using React.js and Tailwind CSS, capable of handling 1000+ daily student queries.