

# Muhammad Saad

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Software engineer with 3+ years of experience in AI, full-stack development, and machine learning. Proficient in LangChain, OpenAI, Next.js, and React. Leveraging skills to enhance recruitment efficiency and streamline mapping operations. Delivered impactful solutions in 6 months of practical application.

## WORK EXPERIENCE

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### Software Engineer • Full-time

True Meridian

Dec 2022 - Present

Innovative Solutions Workplace

- **Developed an AI-powered Information Retrieval and Question-Answering Chatbot** using LangChain, LLMs, Streamlit, GROQ, OpenAI, embeddings, RAG, and GraphRAG. Enhanced 3D visualization features by integrating Cesium.js for displaying models and building data on a world map.
- **Designed and implemented a resume analysis system** leveraging OpenAI to extract user attributes from PDFs, create user profiles, and calculate ATS-style scores based on job descriptions. Improved recruitment efficiency by automating data insights.
- **Built an interactive mapping tool** by processing DWG/DXF files from PDFs and creating a dynamic UI for visualization using Fabric.js and React. Streamlined large-scale mapping operations for engineering teams.
- **Developed a CSV scrubber** for deduplicating data in CSV/XLSX files, integrated an authentication system in Next.js, and optimized workflows by reducing manual effort by 40%.

### Web Developer • Freelancer

Fiverr

Sep 2022 - Present

Freelance Platform

- **Developed an Automated Newsletter System** using Next.js with integrated authentication and database management. Leveraged AWS for scalable email delivery and implemented Stripe for secure user subscription handling.
- **Built a robust Email System** with Google OAuth login and Gmail API integration, enabling seamless email communication for users.

### Machine Learning • Internship

Ivy

Jul 2022 - Aug 2022

Open Source Organization

- Contributed to the project as a part of internship

## EDUCATION

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### Bachelor's in Computer Science

University of Haripur

Oct 2021 - Jun 2025

- **Relevant Coursework:** Data Structures & Algorithms, Computer Networks, Software Engineering, Web Engineering, Database Systems, Artificial Intelligence, Internet of Things, Big Data Analysis.

## PROJECTS

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### Resume Builder

Developed a full-stack resume builder with forms for user input and real-time preview. Incorporated Puppeteer for generating PDF resumes in an A4 format. Managed state with Zustand and stored data securely using Prisma and PostgreSQL.

## Authentication System

Built a secure and scalable authentication system with features like user registration, login, and role-based access control. Integrated OAuth 2.0 and social login options for platforms like Google and GitHub, ensuring a seamless user experience. Employed encryption protocols and token-based authentication to safeguard user data.

## AI Powered Automated Social Sharing

Developed an AI-powered system to automate social media content creation and sharing. Utilized machine learning models to generate personalized content and integrated APIs for seamless scheduling and posting across multiple platforms. Enhanced user engagement by implementing analytics dashboards to track performance metrics.

## CERTIFICATIONS

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### IT Automation with Python

Apr 2023 - Present

Google

### Meta Front-Stack Engineer

Jul 2023 - Present

Meta

### MongoDB Node.js Developer Path

Apr 2023 - Present

MongoDB

## SKILLS

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Amazon Web Services (AWS), Back-End Web Development, CI/CD, Cloud Computing, Cybersecurity, DevOps, Docker, Front-End Development, Full-Stack Development, Git, Google Cloud, JavaScript, MongoDB, Next.js, Node.js, PostgreSQL, Python (Programming Language), React.js, TypeScript, Web Application Development

## VOLUNTEERING & LEADERSHIP

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### Github

Open Source Contributions

- Creating open source projects