

Muhammad Abubakar

Senior Fullstack Engineer | AI & LLM Engineer

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SUMMARY

A highly motivated Full Stack Developer with 6+ years of experience building scalable, high-performance web applications. Experienced in developing visually appealing, responsive solutions while integrating automation and AI-powered features into modern platforms. Strong understanding of backend systems, APIs, and workflow automation, with hands-on experience applying LLMs and intelligent workflows to solve real business problems. Known for collaborating effectively in cross-functional teams and translating complex technical requirements into reliable, user-friendly solutions.

TECHNICAL SKILLS

- Python • Data Science • Django • Flask • Ruby on Rails • C++ • C#
- Large Language Models (LLM) • SFT • RLHF • Agentic AI Workflows • Chain of Thoughts (CoT)
- LLM Orchestration • Autonomous Workflows • Human-in-the-Loop (HITL) • Long-Running AI Workflows
- Policy-Driven Automation • Retrieval-Augmented Generation (RAG) • Business Process Automation (BPA)
- AI Workflow Automation • Integration & API Automation • No-Code / Low-Code Automation (Zapier, Make.com, n8n)
- Pandas, Pytorch, matplotlib
- Javascript, Typescript, ES6, JQuery • Redux, Redux Thunk, Redux Toolkit • NodeJS/ReactJS
- SQL - MySQL, PostgreSQL, SQL Server • Vector Databases (Pinecone) • NoSQL - MongoDB, Redis
- HTML, CSS, SCSS, Bootstrap
- Data Preparation & Labeling • Generative AI • Web scraping • Prompt Engineering • Function Calling • Stripe
- Docker • Azure (CI/CD) • Heroku • GCP • AWS (S3, EC2, Cloud Front, Cloud Watch, RDS, Lambda functions, API Gateway)

EXPERIENCE

Turing

Python/LLM Trainer & Reviewer

June 2024 – Present

- Contributed to multiple projects in the domain of Data Science, Artificial Intelligence, and workflow automation.
- Developed and optimized an internal platform that assists users with diverse queries and tasks using a large language model (LLM), while automating repetitive user interactions and backend processes.
- Applied SFT, RLHF, and Chain-of-Thought (CoT) techniques to train and improve LLM performance for real-world use cases.
- Designed and implemented agentic and agentless workflows to automate multi-step tasks, decision logic, and tool interactions.
- Specialized in training LLMs through prompt engineering and Retrieval-Augmented Generation (RAG) to enable reliable, context-aware automation.
- Contributed to the development of internal automation tools, including a JSON schema generator and a data labeling tool to streamline AI training pipelines.

Mercor

LLM Evaluation Engineer / AI Data Annotator & Reviewer (Contractor)

Nov 2025 - Present

- Evaluated large language models by running controlled experiments on GitHub repositories using multiple Claude model variants.
- Cloned, configured, and executed diverse codebases to benchmark LLM behavior on real-world software projects.
- Designed and tested comparative prompts to measure reasoning quality, task completion accuracy, and model reliability.
- Performed data annotation, labeling, and quality assurance to support RLHF workflows and training data pipelines.

- Improved and refined labeling guidelines in collaboration with internal teams to maintain consistency and quality.
- Reviewed and validated AI training tasks and conversations to ensure factual accuracy, coherence, and alignment with automated workflow and prompt guidelines.

AfterschoolHQ

Fullstack Engineer - USA(Remote)

Jun 2023 - Jun 2024

- Designed and developed dynamic full-stack applications with React.js and RESTful APIs, delivering highly responsive UIs and smooth data flows.
- Utilized integrations such as Ghost Inspector for automated regression testing and analytics platforms for product performance tracking.
- Built a custom analytics tool from scratch, implementing data aggregation, filtering, and visualization for actionable business insights.
- Optimized application performance through code splitting, lazy loading, caching strategies, query optimization, and DOM rendering improvements, resulting in reduced load times and improved scalability.
- Managed support requests and wrote unit tests, ensuring stable, secure, and high-performing applications.

Devsinc

Senior Software Engineer

Jan 2023 - Jun 2023

- Worked with a team of 5 developers to develop sublime application solutions.
- Provided technical guidance to the team in handling high-scale projects using Python, Ruby on Rails, React, Docker, and AWS.
- Conducted code reviews and helped the team members, resulting in improved quality of the code.
- Led the development of high-traffic backend systems, optimizing database performance, and ensuring seamless data retrieval.
- Designed and maintained scalable and responsive web applications, ensuring optimal user experiences across various devices.
- Contributed to the design and development of microservices, improving system modularity and scalability.

Software Engineer

Feb 2022 - Jan 2023

- Led the development of high-traffic backend systems, optimizing database performance and ensuring seamless data retrieval.
- Successfully implemented secure authentication and authorization mechanisms, safeguarding sensitive user data and enhancing overall system integrity.
- Designed and maintained scalable and responsive web applications, ensuring optimal user experiences across various devices.
- Contributed to the design and development of microservices, improving system modularity and scalability.
- Integrated search engines like Elasticsearch to enhance data querying and retrieval capabilities.

Associate Software Engineer

Aug 2021 - Feb 2022

- Proficient in backend programming languages, including React.js, Python, and Ruby.
- Extensive experience in designing, implementing, and optimizing relational databases (MySQL, PostgreSQL) and NoSQL databases (MongoDB, Redis), with a focus on efficient data storage and retrieval.
- Expertise in developing RESTful APIs and integrating third-party APIs to enhance application functionality and improve user experience.
- In-depth knowledge of microservices architecture, including the design and implementation of modular and scalable backend services.
- Familiarity with cloud platforms such as AWS, Azure, and Google Cloud Platform for deploying and managing backend applications.

Fiverr

Professional Freelance Developer

Jan 2019 - July 2021

- Developed the foundational full-stack code and played a key role in the advancement of software applications, primarily utilizing the Ruby programming language.
- Collaborated on a variety of projects with diverse clients, demonstrating versatility in working across various technology stacks, such as C++, C#, PHP, Ruby on Rails, Python, and undertaking tasks related to Linux-based computer networks.

EDUCATION

National University of Computer and Emerging Sciences (FAST-NUCES)
Bachelor of Science in Computer Science

Aug 2017 - Sep 2021