

Rafey Rana

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Results-driven software engineer with 3+ years of experience specializing in machine learning engineering, full-stack development, and cloud architecture. Proven track record in reducing improving system efficiency through innovative solutions.Experienced in developing AI-driven projects across frontend and backend, and enjoys creating unique solutions that combine novelty with current technology trends.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, Javascript, Typescript, SQL, Golang, Bash

Tools and Frameworks: Pandas, Tensorflow, Pytorch, OpenCV, Langchain, ReactJS, NextJS, MongoDB, PostgreSQL, MySQL, Spring Boot, Beautiful Soup, Selenium, GraphQL

Cloud & MLOps: AWS (SageMaker, Lambda, S3, EC2), Docker

Technologies: Git, Linux, AWS, Docker, Matlab, Latex

Certifications: AWS Cloud Practitioner, CCNA Routing and Switching, Huawei Security, Huawei Routing and Switching

EXPERIENCE

Conrad Labs

Dripping Springs, Texas

Software Engineer

Jun 2024 – Present

- Developed AI agents using Langchain and workflow automations for Automotive Industry, reducing processing time by 30-68% across multiple tasks.
- Finetuned Open Source LLM models on domain-specific datasets using Q-Lora and deployed models on AWS Sagemaker endpoints, achieving 93%+ accuracy on domain-specific tasks.
- Integrated payment gateways, Stripe and PayPal with Spring Boot backend, handling secure transaction processing and real-time payment updates

Preptor AI

Dallas, Texas

AI Engineer

Aug 2023 – May 2024

- Implemented computer vision pipeline using YOLOv5 and OpenCV, automating the processing of 10,000+ hours of video data with 95% accuracy
- Developed an AI chatbot using Langchain and ChromaDB, applying prompt engineering techniques to cut feature costs by 71%.
- Developed automated ETL pipeline processing 3,000+ documents monthly, utilizing AWS S3, Lambda, and custom Python scripts
- Developed a gamification engine with leaderboards and social media integration, boosting user engagement by 27%.

Crossbar

Dubai, UAE

Co-Founder & CTO

May 2022 – Present

- Led a team of 4 engineers to develop a cross-platform (iOS, Android, Web) soccer-focused solution for pitch bookings, tournaments, and advanced analytics.
- Developed the MVP and analytics features using Next.js, Pandas, Numpy, PostgreSQL, and Vercel, leading to successful seed funding of \$15,000 .
- Scaled the platform to 7,000+ active users and established partnerships with 40+ soccer clubs across the middle east.

VaporVM

New York, New York

Software Engineer

May 2021 – Sep 2023

- Developed responsive React dashboards using Redux for state management, Bootstrap for styling and GraphQL for efficient data fetching.
- Implemented microservices in TypeScript with PostgreSQL, leveraging AWS Lambda for serverless infrastructure.
- Configured AWS EventBridge CRON jobs to optimize data sync across multiple third-party systems, reducing ingestion time by 23%.
- Developed unit tests with Jest, achieving 95%+ code coverage and scripted deployment pipelines using Bash.

PROJECTS

GPT-2 Implementation in Pytorch

Python, PyTorch, Cuda

AI Self-Driving using NEAT

Python, Genetic Encoding Algorithms

Daily PM: Natural Language Github Interface

Python, OpenAI, Git, SMTP

Bloodhub: Blood Donation Platform

ReactJS, NextJS, MySQL, ExpressJS, NodeJS

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Expected Graduation : May 2026

Lahore University of Management Sciences (LUMS)

Bachelor of Science in Computer Science