

Rishabh Shah

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Skills

Backend: Python, Java, FastAPI, Docker, Jenkins, Kafka, Flask

Frontend: Next.js, TypeScript, React, Node.js, Tailwind CSS, Zustand

LLMs: OpenAI, Anthropic, Helicone, HuggingFace, Weights and Biases, Langchain

Cloud & Databases: AWS, GCP, Vercel, Heroku, PlanetScale, Pinecone, Supabase, Firestore, MongoDB, S3, Upstash

Work Experience

Reworkd AI (YC 23) – Founding Full Stack Engineer – San Francisco, California

June 2023 - December 2023

- Co-developed an agent-centric RPA platform (like [Zapier](#)), using Kafka, Python, FastAPI, Next.js, and Tailwind CSS
- Owned 3 customer pilots, independently hacking 6 end-to-end AI applications, including a content writing agent and MLS compliance web agent using Retrieval Augmented Generation (RAG), Fine-tuning, function calling, and few-shot learning
- Architected a general purpose [web agent](#) using GPT-4, inspired by the LLM-assisted learning agent proposed in [Voyager](#)
- Built Next.js platform for pilot organizations to monitor, queue, and export 10,000+ data extraction jobs. Utilized PlanetScale for database and Prisma for ORM.
- Created open-source web agent [evaluations framework](#), unifying [Mind2Web](#) and [WebArena](#) information retrieval tasks specific to our enterprise use cases

Roku – Software Engineer – Austin, Texas

August 2022 – April 2023

- Built [Roku Resource Monitor](#) to provide third-party developers channel CPU consumption metrics
- Integrated TestRail service in automation infrastructure to generate and populate test reports, utilized by 500+ developers
- Built observability dashboards using Planetscale and Grafana for QA teams to monitor automation infrastructure usage

HubSpot – Software Engineer Intern – Cambridge, Massachusetts

August 2021 – December 2021

- Designed and shipped 2 core front-end features as part of HubSpot [cookie consent banner](#) to assist businesses in monitoring site cookies, including a [company policy form](#) and [style customization banner](#) built using React.js, Node.js, and Redux
- Enabled real-time cookie classification using AWS Lambda to pre-process site cookie data and deploy models in production
- Co-led beta release on 13 customer platforms, driving product improvements through A/B testing and feature flagging

Texas Instruments – Software Engineer Intern – Richardson, Texas

June 2020 – August 2020

- Translated design validation CLI tool to React.js frontend, creating a more user-friendly workflow
- Created monitoring tool to highlight semiconductor design issues based on customer returns data using SQL and Spotfire

Projects

Moseby AI

April 2023 – June 2023

- Built AI consultant to help short-term rental hosts monitor pricing, improve listing conversion, and resolve guest issues
- Integrated [Helicone](#) for semantic caching, rate limiting, auto-retries, and observability, reducing system latency and failures
- Created chatbot with GPT and Pinecone using RAG, embedding 100+ real estate videos, podcasts, and books

MLAgent – AGI Researchers x Builders Hackathon – San Francisco

November 2023

- Assisted in development of AI research agent capable of posing, running, and evaluating ML experiments
- Added search action, giving agent ability to gather information from [arXiv](#) papers to hypothesize new research ideas
- Benchmarked agent on [MLAgentBench](#), a suite of ML tasks for evaluating research agents using Kaggle challenges

Sponsio

January 2022

- Built online wagering platform using React.js, Redux, and Firebase for friends looking to challenge each other to creative bets
- Integrated authentication server and Stripe API to log users in and securely complete transactions

Education

University of Texas at Austin, Austin, TX

2018 - 2022

- B.S. in Mechanical Engineering & Computer Science, GPA: 3.72 / 4.00, University Honors
- **Relevant Coursework:** Data Structures, Algorithms, Machine Learning, Linear Algebra, Vector Calculus, Operating Systems, Databases, Data Analytics, Web Development, Dynamic Systems and Controls, Mechatronics, Engineering Statistics

Activities & Interests: hacking CS projects, lifting, investing in Airbnbs, reading, playing chess, and playing NBA 2k