Dhruwang Akbari

https://dhruwanga19.github.io • LinkedIn • GitHub

Recent Computer Science graduate, proficient in full-stack development, AI/ML technologies and cloud systems. Seeking software engineering role to leverage technical expertise in creating innovative solutions.

TECHNICAL SKILLS

Languages: Python, Java, Go, Javascript, Typescript, SQL, Bash
Frameworks: NextJS, ReactJS, NodeJS, ExpressJS, Angular, React Native, REST, Langchain, gRPC, Jest, JUnit
Tech/Tools: AWS(EC2, S3, DynamoDB, Lambda), GCP, Docker, Git, Linux/Unix, Flask, Postman, Figma, MongoDB, Redis, IBM DB2, Postgres, Tensorflow 2, QT Creator, Cloud Vision, Tesseract
Libraries: Flask, Pandas, NumPy, Matplotlib, Pytorch, Tensorflow, FastAPI, Tailwind CSS, OAuth2, Websockets, HTMX, D3.js

WORK EXPERIENCE

Software Engineer for AI Training | Outlier AI | Remote, Canada   June, 2024-Present
- Leveraging Reinforcement Learning with Human Feedback (RLHF) to improve AI-generated code accuracy by 30%
- Utilizing TDD to integrate over 150 robust test cases in Swift and Python to rigorously evaluate human-readable summaries and feedback chain of 200+ developers.

Front-End Developer Intern   May-September, 2023
Rhyno Group of Companies| Rajkot, India
- Led modifying new services and product portfolio pages, ensuring accurate information was presented to potential by actively working with product teams, resulting in a 15% increase in inquiries.
- Enhancing SRE response efficiency by 30% by deploying a full-stack NextJs application in a custom CI/CD pipeline developed in 9 one-week sprints.
- Actively tested react components using Jest and react-testing-library to mock API calls and functional testing.

NOTEWORTHY PROJECTS

AI Expense Tracker [Git] | Next.js, Go, MongoDB, TailwindCSS, Google Cloud Vision
- A Full-Stack application with NextJs and Go for managing your daily expenses. Using Google Cloud Vision OCR for recognizing bill expenses to automatically add the business and personal item bills.

London Navigator [Git] | React Native, Flask, MongoDB, Pinecone, Langchain
- Developed an AI chatbot mobile application with React Native and Flask for users to gain exclusive information about the City of London in Ontario.
- Implemented Retrieval Augmented Generation using Vector Datastore to fine-tune LLM and provide personalized features, reduced hallucinations by 20%.

Stock Sentiment Analysis [Report] | Kaggle, Tensorflow 2, NumPy, Pandas, Python
- Developed and implemented LSTM networks, achieving a mean absolute error reduction of 15% in stock price forecasts based on historical data. Utilized Support Vector Machines (SVM) to enhance model robustness.
- Applied sentiment analysis using BERT models from Hugging Face to analyze tweet sentiment, improving stock market prediction accuracy by 12%. Effectively presented findings at Canadian Undergraduate Conference on AI (CUCAI) 2024.

Ring, Bully, RAFT Election Algorithm [Git] | Python, QT Creator, gRPCs
- Coded all the election algorithms, integrating them with the UI to display dynamic algorithm behavior and state changes in real time. Implemented the gRPC protocol to manage network communications, facilitating the efficient transmission of heartbeats and messages between distributed nodes within the simulation.

EDUCATION

Western University | London, ON   Graduation Date: June, 2024
- B.Sc. in Computer Science, Minor in Software Engineering
- Relevant Coursework: Operating Systems, Linear Algebra, Machine Learning, Data Structures & Algorithms, Distributed Systems, System Design and Software Testing
- x2 Dean's Honor List