

Dhruwang Akbari

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TECHNICAL SKILLS

Languages: Python, Java, Go, Javascript, Typescript, HTML/CSS, SQL, NoSQL, Bash, Swift

Frameworks: NextJS, ReactJS, NodeJS, ExpressJS, Angular, React Native,, REST, Langchain, gRPC, Jest, JUnit

Tech/Tools: AWS(EC2, S3, DynamoDB, Lambda), Docker, Git, Linux/Unix, Jira, Flask, Postman, Figma, Agile/Scrum, MongoDB, Redis, IBM DB2, Postgres, JupyterNB, Tensorflow 2, QT Creator

Libraries: Flask, Django, Pandas, NumPy, Matplotlib, Pytorch, Tensorflow, FastAPI, Tailwind CSS, KindeAuth, OAuth2, Websockets, HTMX

WORK EXPERIENCE

Code Review for AI Training | Outlier AI | Remote, Canada June, 2024-Present

- Spearheaded the implementation of Reinforcement Learning with Human Feedback (RLHF) to improve AI-generated code accuracy by 30% through writing over 150 robust test cases in Swift and Python, rigorous evaluation of human-readable summaries and feedback chain of 200+ developers.

Machine Learning Developer (Freelance) October, 2023-April, 2024
Western Cyber Society | London, ON

- 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 with 98% accuracy to analyze tweet sentiment, improving stock market prediction accuracy by 12%. Generated detailed reports for model performance, data analysis using **TensorFlow 2**, **NumPy**, and **Pandas** to present results at Canadian Undergraduate Conference on AI (CUCAI) 2024.

Front-End Developer Intern May-September, 2023
Rhyno Group of Companies | Rajkot, Gujarat

- Maintained and updated new services page and product portfolios, ensuring accurate information was presented to potential clients, resulting in a 15% increase in inquiries. Used Jest to test react components using react-testing-library and mock API calls.
- Utilized **Next.js** and **React.js** for developing a dynamic and responsive front-end enhancing SRE response efficiency by 30% in a custom CI/CD pipeline developed in 9 one-week sprints.

NOTEWORTHY PROJECTS

London Navigator [[Git](#)], React Native, Flask, MongoDB, Pinecone, Langchain September 2023 - April 2024

- 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%.

EZ-Calendar [[Git](#)], Next.js, Firebase, KindeAuth, TailwindCSS June, 2024

- A Full-Stack application for managing and creating meetings and schedules for personal or business purposes, handling client-side meeting requests with business schedules set by users and deployed using Vercel to maintain the codebase

Ring, Bully, RAFT Election Algorithm [[Git](#)], Python, QT Creator, gRPCs Jan-Apr, 2024

- 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 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