

DHRUWANG AKBARI

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EDUCATION

University of Western Ontario

London, ON

Bachelor of Science in Computer Science, Minor in Software Engineering

Sep. 2020 – Jun. 2024

- **Coursework:** Operating Systems, Database Management, DSA, Distributed Systems, Computer Networks, AI, System Design
- **Achievements:** Deans Honor List, CGPA: 3.4/4.0

WORK EXPERIENCE

Western University

Oct. 2023 – Apr. 2024

Software Engineer

London, ON

- Developed a full-stack React Native MVP with Flask serving REST API to help users access location-based information about local businesses, facilities and nearby events using Google Maps API
- Engineered a RAG pipeline using Pinecone and Langchain, improving chatbot response accuracy through vector embeddings and optimized top-k result selection
- Built reusable components and utilities using python SDK for the Langchain ReAct agents, contributing 3K+ lines of production-quality code
- Collaborated with senior developers by code reviews to maintain code quality while improving system design

Rhyno Group of Companies

May 2023 – Sep. 2023

Full-Stack Developer Intern

Remote, Canada

- Built full-stack e-commerce platform using Next.js, NodeJS, & PostgreSQL, implementing database optimization techniques like indexing, caching with Prisma ORM and RESTful API design using Postman
- Implemented unit tests, automated testing, snapshot testing using Jest and react-testing-library, achieving 90% code coverage
- Optimized front-end performance through code splitting, lazy loading, and efficient state management with Redux
- Actively participated in agile development processes, contributed to sprint planning & daily stand-ups across 9 weekly sprints

EXTRACURRICULAR & PROJECTS

Western Cyber Society (Student Club)

Nov. 2023 – Feb. 2024

Machine Learning Developer

London, ON

- Collaborated in a team of 4 to process financial data from Yahoo Finance API and develop a sentiment analysis pipeline using Twitter-RoBERTa-base model to analyze over 9 million tweets for stock market sentiment correlation
- Pre-processed, normalized tweet data & built linear regression models using scikit-learn to analyze correlation between tweet sentiments and stock price movements by creating visualization tools using Matplotlib
- Implemented automated testing and monitoring for the data pipeline, ensuring 99.9% uptime and data accuracy, Presented at CUCAI 2024

Computer Science Undergraduate Society (Community Club)

Oct. 2022 – Apr. 2023

Academic Tutor

London, ON

- Mentored 150+ first-year students in web development, Python, and Java fundamentals through interactive sessions, while providing code reviews and emphasizing industry best practices

AI Expense Tracker 🔄 | TypeScript, Next.js, Go, MongoDB, Google Cloud Vision, Docker

Jul. 2024 – Present

- Engineered a full-stack expense management application integrating Google Cloud Vision OCR to automate receipt data extraction with user authentication using OAuth2 and state management with Redux.js, Containerized with Docker

Labyrinth Solver 🔄 | Java, Maven, Eclipse

May 2024

- Developed a Java-based labyrinth with undirected graphs and implemented depth-first search algorithm with backtracking achieving $O(V+E)$ time complexity and 95% success rate in complex maze scenarios
- Built GUI using Java Swing and AWT to visualize labyrinth & solution path.

Distributed Systems Simulation 🔄 | Python, QT Creator, gRPC, Docker

Mar. 2024

- Created an educational tool demonstrating Ring, Bully, and RAFT election algorithms with real-time visualization
- Implemented inter-node communication using gRPC for efficient data transfer between simulated nodes
- Built an interactive interface using QT Creator to visualize distributed system concepts

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, HTML, SQL, Python, Java, Go, NoSQL

Frameworks: Langchain, Jest, gRPC, REST, TCP/IP, HTTP, NodeJS, Express.js, Next.js, React Native, OAuth2

Developer Tools: Linux, Git, Docker, VS Code, Google Cloud, Postman, Microsoft SQL Server, Postgres, MongoDB

Libraries: Flask, React, pandas, NumPy, Matplotlib, Scikit-learn, transformers