Zhijun Tian

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EDUCATION

Lehigh University, Bethlehem, PA   May 2026
Bachelor of Computer Science and Engineering

EXPERIENCE

Frontend Developer   Fall 2023 – Present
Energy Systems Engineering Department, Lehigh University, Bethlehem, PA
- Refactored and optimized 70% department's website content using Drupal, improving site performance, maintainability, and scalability
- Improved website content format using WCAG guidelines, enhancing accessibility for 100% of users relying on assistive tools, ensuring inclusivity and improved usability
- Developed 10 dynamic pages for past events, displaying participant bios, pictures, background and presentation in an intuitive and visually appealing format

Software Development Intern   May 2024 - Aug 2024
Airacer, New York City, New York
- Developed pipeline to web scrape flight information from 30 well-known private aviation companies using Python for commercial use
- Automated the extraction and generation of data from multiple large datasets, each containing over 10,000 data points, including sources like Wikipedia, for analytical purposes
- Utilized SQL and cloud databases to store and organize data obtained through web scraping
- Analyzed 30 site structure and security strategies to obtain data we want
- Increase workflow efficiency by 60%

PROJECTS

Multi-Agent System - Stock Trading
- Developed agentic system that integrates Observation, Prediction, Execution, and Feedback agents, enabling automatic real-time decision making based on retained data and learning model
- Implemented RL and DQN to predict stock price movement based on historical data, continuously refining trading strategies to adapt to market trends and maximize profitability
- Leveraged interactive, real-time financial data visualizations, including candlestick charts and technical indicators like RSI and MACD, enabling users to monitor stock performance

AWS Autonomous AI Workflow - Customer Support Bot
- Integrated AWS Lambda, Lex, DynamoDB, and other tools for a robust customer support bot
- Designed reinforcement learning algorithms to continuously improve chatbot's decision-making model, reducing incorrect intent recognition by 20% and improving user engagement by 15%.
- Automating 80% of customer requests and increasing throughput by 30%, leading to improved operational efficiency and customer satisfaction

AI RAG(Retrieval Augmented Generation) Agent - Document Summary and Q&A APP
- Built an AI-powered RAG system with Google Gemini, enabling customizable dynamic LLM responses and 98.6% accurate Q&A across 1000+ page PDFs
- Developed a context-aware AI agent that delivers personalized, multi-turn responses by utilizing prior interactions and tailors responses accordingly
- Integrated Google OAuth 2.0 and Drive API for secure authentication and seamless document selection/summarization
- Designed a scalable Next.js backend pipeline (upload, parsing, embedding, inference) optimized for Vercel deployment and cost efficiency

SKILLS

Technical Skills: Java, Python, C, JavaScript, SQL, Rest API, Cloud databases, Drupal, Data automation, AI integration, Machine Learning, RAG, LLMs, AI automation
Tools/frameworks: AWS, Next.js, React, Tailwind, Node.js, Oauth, Vercel, Cloud Service
Language proficiency: Fluent in English and Mandarin Chinese