

Hetal Patel

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Work Experience

Software Engineer AI Services Intern, Kratos AI – Fort Worth, TX Aug 2024 – Present

- Developed Python script using machine learning algorithms to evaluate AI model performance, achieving 63% prediction accuracy, measured with precision, recall, and F1 score metrics
- Deployed and tested pre-developed AI text models in Azure OpenAI Studio, improved text output accuracy by 95%, measured against baseline model precision through BLEU scores and human evaluation metrics
- Built Java APIs to integrate AI models into web apps and chatbots, cutting response time by 30%

Senior Software Engineer, Manek Consulting – Mumbai, MH May 2019 – Mar 2022

- Built full-stack web app with Spring Boot, PostgreSQL, Angular, and AWS to automate KYC verification and account opening, increasing revenue by \$3.6M and reducing process turnaround time from 48 hours to 10 minutes
- Implemented microservices architecture using Redis caching to manage prefetch data for user profiles, geolocation, and multistep KYC forms, decreasing database load by 50% for over 180,000 active users
- Led team of 7 full-time developers in creating a payment aggregator platform using Node.js, React, and MongoDB
- Created CI/CD pipeline using Jenkins and Docker in AWS for microservices, resulting in faster time-to-market with 80% decrease in deployment-related incidents
- Updated client-side performance by introducing lazy loading, caching, and state management with NgRx in Angular, resulting in a 35% reduction in page load time and boosting session retention across Desktop, iOS, and Android

Software Developer, Rupeeseed Technology Venture Private Limited – Mumbai, MH Oct 2016 – May 2019

- Engineered 23 JavaScript applications for trading brokers by refactoring legacy code and interacting with APIs allowing users to place quick buy and sell orders in local markets, ensuring better user engagement as per analytics
- Optimized trade order matching REST API to handle 1,000+ transactions per second using Apache Kafka, reducing congestion by 54% during peak hours
- Improved real-time trading experience by adding indexing and query restructuring in MySQL, reducing average execution time by 71% for over 80,000 daily transactions
- Worked in agile environment with cross-functional teams and clients to add options trading in financial trading platforms, resulting in increased customer satisfaction, as shown by post-launch surveys

Associate Intern, HCLTech – Hyderabad, TG Dec 2015 – Aug 2016

- Built an auto sales automation system using Java and Oracle, boosting efficiency by 40%
- Executed ETL operations to extract and load data, optimized SQL queries for 25% faster retrieval

Projects

3D Object Detection in Single Image github.com/Hetal-patel1994/3d-single-object-detection

- Developed deep learning model using PyTorch and Yolo libraries for 3D object detection in single 2D images

Airline Analysis airline-delay-analysis.netlify.app

- Constructed big data pipeline for airline delay analysis using PySpark and AWS (S3, EC2, EMR, Redshift)

Skills

Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, CSS

Web Development: Spring Boot, Angular, React, Node.js, Express.js, Vue.js, Next.js, jQuery,

Technologies: Git, Docker, AWS, Azure, Kubernetes, Jenkins, Cypress, Splunk, Ansible, Jira

Education

Master of Science in Computer Science – California State University, Fullerton May 2024

Bachelor of Engineering in Information Technology – University of Mumbai May 2015