ABHISHEK REDDY ADUNOORI

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Summary

Software engineer with 2+ years of experience building scalable RESTful APIs and modern web applications using tools like .NET, Node.js, and Angular. Demonstrated agility in implementing new features, conducting thorough code reviews, and contributing to product documentation within Agile teams. Proven track record deploying reliable, enterprise-grade systems on AWS that deliver high performance and cost efficiency.

EDUCATION

Montclair State University, NJ   **Jan 2024 - May 2025**
MS, Computer Science   *Montclair, New jersey*
- **GPA:** 3.97/4
- **Achievements:** Alpha Lambda Epsilon Honor Society (Academic Excellence Award)
- **Coursework:** Machine Learning, Artificial Intelligence, Cloud Computing, Distributed Systems, Database Systems, Operating Systems, Data Structures & Algorithms, Software Engineering, Computer Networks, Blockchain

Gandhi Institute of Technology and Management, India   **Jun 2018 - Jun 2022**
B. Tech, Computer Science   *India, Hyderabad*
- **GPA:** 8.29
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, JAVA, C++, Database Management Systems, Computer Networks, Operating Systems, Software Engineering, Compiler Design, Web Technologies

EXPERIENCE

Veach.ai   **Jul 2025 - Present**
Software Engineer – AI/ML Focus   *New York City, NY*
- Developed and shipped a **multi-agent AI orchestration platform** using LangGraph and LangChain in an Agile environment; automated financial and real estate due diligence to generate cited risk and valuation reports for VCs, hedge funds, and developers, scaling to 10+ concurrent enterprise analyses.
- Engineered an **LLM routing layer** utilizing GPT-4, Claude, and local models with built-in validation and failover, reducing inference costs by 23% while ensuring accuracy and reliability.
- Implemented a **retrieval-augmented generation (RAG) pipeline** with FastAPI, Chroma, and PostgreSQL/pgvector for real-time semantic search, cutting manual review time by 80%.
- Applied advanced ML techniques, including transformer models for NLP and time-series forecasting (LSTM/ARIMA) for pricing trends, while leveraging Explainable AI (SHAP, LIME) to maintain compliance and transparency.
- Deployed the system on Kubernetes with autoscaling, Redis caching, and AWS S3 integration, achieving sub-second response times for high-throughput document analysis.

Montclair State University   **Aug 2024 - May 2025**
Graduate Assistant   *Montclair, NJ*
- Facilitated operating systems labs for 50+ students, teaching Linux, C/C++, Bash scripting, and IPC concepts, and creating hands-on assignments that boosted participation and understanding in an Agile learning environment.
- Developed an **automated grading system** using Python, Docker, and GitHub Actions to generate JSON/CSV reports, reducing manual grading time by 70%.
- Built an **AI-driven auto-evaluator** with GPT-4, Claude, and LangChain to deliver real-time code feedback, saving over 4 hours per week while ensuring consistent standards.

Candour Global Risk Services Private Limited   **Aug 2022 - Dec 2023**
Software Engineer   *India, Hyderabad*
- Designed and deployed **distributed systems** using Java, .NET, and Spring Boot on AWS as part of Agile release cycles, ensuring 99.99% uptime and processing over 5M transactions daily with automated failover.
- Created transactional systems leveraging PostgreSQL clustering, Redis caching, and Kubernetes orchestration; implemented replication and disaster recovery solutions to ensure zero data loss during migrations.
- Developed enterprise **RESTful APIs** and microservices using REST standards and Kafka with load balancing and retry logic, supporting sub-100ms response times for high-concurrency workloads.
- Enhanced system reliability with an observability stack (Prometheus, Grafana, CloudWatch, custom telemetry), reducing MTTR by 70% through proactive monitoring and agile feedback loops.
- Streamlined production releases using CI/CD pipelines (Jenkins, Docker, unit testing frameworks), achieving 95% code coverage and reducing production defects by 60% through rigorous code reviews.
- Deployed multi-region cloud solutions with AWS EC2, RDS, S3, and Kubernetes; implemented auto-scaling, backup automation, and monitoring to meet strict service level agreements.

PROJECTS

GrokXQ: AI-Powered Developer Toolkit
- Built a **full-stack platform** (React, Next.js, TypeScript, FastAPI) that automated code review and refactoring with real-time API integrations.
- Improved developer productivity by enabling **multi-model comparisons** across LLMs for faster, higher-quality feedback.

Conversational LLM Auto-Grader & Learning Assistant
- Created an **AI-powered grading assistant** (Google Gemini, LangChain) that evaluated code/math assignments with **personalized, stepwise hints**.
- Reduced instructor workload while enhancing **student engagement and learning outcomes**.

Personalized Study Buddy using Hugging Face Transformers
- Designed an **adaptive chatbot** (Hugging Face DistilBERT) that guided students through self-quizzing and critical thinking exercises.
- Enabled **scaffolded learning** by providing hints instead of direct answers.

Space Explorers: Interactive 3D Solar System Learning App Aug 2024 - May 2025
Montclair State University *Upper Montclair*
- Built an interactive **3D solar system learning app** (JavaScript, React.js, Three.js) with real-time exploration features for web and mobile browsers.
- Integrated **AI-powered adaptive learning** using a **DistilBERT-based Q&A assistant** for astronomy concepts and **reinforcement learning models** to adjust quiz difficulty dynamically.
- Deployed the app for **East Orange High School students**, delivering an **engaging STEM experience** through interactive 3D visualization and personalized learning feedback.

TECHNICAL SKILLS

- **LLMs & Frameworks**: LangChain, LangGraph, LangSmith, PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers
- **Techniques**: Transformers (BERT, DistilBERT, GPT), Retrieval-Augmented Generation (RAG), Reinforcement Learning (PPO, DQN), Time-Series Forecasting (LSTM, ARIMA), Explainable AI (SHAP, LIME), AutoML
- **MLOps & Data**: MLflow, Vector Databases (Chroma, Pinecone, FAISS), Apache Spark, Pandas, Numpy, Matplotlib, plotly
- **Programming Languages**: Java, C/C++, JavaScript, TypeScript, SQL, Bash, Go, .NET, Python, C#
- **Backend Development**: FastAPI, Spring Boot, Node.js, Express.js, Django, Flask, Serverless Architecture, .Net Core, Entity Framework
- **Frontend Development**: React, Next.js, Angular, Vue.js, HTML5/CSS3, Tailwind CSS
- **APIs & Integration**: REST APIs, GraphQL, WebSockets, gRPC, OpenAI/Anthropic/Google/Groq/Mistral APIs, kafka, Microservices APIs
- **Cloud & Infrastructure**: AWS (EC2, Lambda, S3, RDS, EKS, CloudFormation), Google Cloud Platform, Azure, Docker, Kubernetes, Github Actions, Terraform, Infrastructure as Code (IaC)
- **Monitoring & Observability**: Prometheus, Grafana, ELK Stack, CloudWatch, LangSmith
- **Databases & Storage**: PostgreSQL, MongoDB, MySQL, Redis, DynamoDB, Elasticsearch, S3, Data Warehousing
- **Software Engineering**: System Design, Microservices Architecture, Distributed Systems, Load Balancing, Caching (Redis, Memcached), Event-Driven Architecture, Design Patterns, Agile/Scrum, TDD/BDD, Analytical Reasoning, Organization

CERTIFICATIONS

- Amazon Web Services (AWS) Certified Solutions Architect Associate