Meghanath Tattari

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PROFESSIONAL SUMMARY

Software Engineer with 5+ years of experience designing scalable backend systems and secure microservices. Adept at developing high-performance RESTful APIs and ensuring robust testing within agile, CI/CD environments. Proven track record in building reliable systems for healthcare and financial applications while providing clear technical guidance and mentoring to peers.

SKILLS

- **Languages**: C#, Java, JavaScript, TypeScript, SQL, HTML5, CSS3, Python, GoLang
- **Frameworks**: ASP.NET Core (8/6/3), Spring Boot, Angular, React, MVC, Microservices
- **AI & Data Skills**: Machine Learning (Scikit-learn, TensorFlow), Natural Language Processing (OpenAI APIs), Predictive Analytics, Data Visualization (Power BI, Grafana), Generative AI (LLM Integration, Prompt Engineering)
- **Messaging & Data Pipelines**: Kafka, RESTful APIs, gRPC, GraphQL, Event-Driven Architecture
- **Databases**: PostgreSQL, SQL Server, MySQL, MongoDB, Redis
- **Cloud & DevOps**: AWS (Elastic Beanstalk, CodePipeline, CloudFormation), Azure (App Services, DevOps), Docker, Terraform, CI/CD Pipelines, Kubernetes, GCP / GKE
- **Monitoring & Observability**: OpenTelemetry, Splunk, Grafana, Application Insights
- **Testing Tools**: XUnit, NUnit, Jest, Karma, Jasmine, Postman, Swagger UI, Unit Testing, Integration Testing
- **Version Control & Tools**: Git, GitHub, Bitbucket, IntelliJ, VS Code, Visual Studio
- **Core Competencies**: Back-end Engineering, AI-driven Applications, Data-intensive Systems, Asynchronous Code, Debugging, Analytical Thinking, Agile Environment

PROFESSIONAL EXPERIENCE

Optum **Jul 2024 - Present**

Full Stack Software Engineer

- Built a Risk & Compliance Management platform using secure RESTful APIs and .NET microservices to enhance real-time healthcare risk monitoring, fraud detection, and regulatory compliance.
- Developed C# ASP.NET Core microservices with REST and gRPC for data exchange across compliance, audit, and claims systems, ensuring resilient, scalable architecture.
- Designed interactive compliance dashboards with Angular, TypeScript, HTML5, and Tailwind CSS for real-time patient data integrity and audit alerts.
- Integrated AI-based anomaly detection using Python, Scikit-learn, and ML.NET to identify healthcare fraud patterns, improving detection accuracy by 25%.
- Implemented predictive models for compliance risk scoring, leveraging Azure Machine Learning to anticipate potential audit exceptions.
- Used RxJS for real-time data streaming and live incident tracking, enabling continuous compliance visibility.
- Managed multi-database architecture (PostgreSQL for analytics, SQL Server for claims) with HIPAA-compliant encryption and access controls.
- Built microservices linking ML dashboards to regulatory reporting modules, providing real-time analytics and automated alerting.
- Applied OpenTelemetry for distributed tracing, observability, and performance monitoring across .NET 8 microservices in Azure.
- Collaborated with DevOps teams to automate CI/CD pipelines in Azure DevOps using Terraform for secure, fault-tolerant deployments.
- Deployed on Azure App Services, ensuring 24/7 uptime, efficient release cycles, and compliance with healthcare data protection standards.
- Partnered with compliance teams to automate regulatory reporting workflows, reducing manual effort and strengthening audit readiness.

Citi **May 2023 - Jul 2024**

Full Stack Developer

- Developed a cloud-based Financial Transaction & Claims Management System to streamline transaction validation, claims processing, and client reconciliation within Citi’s secure banking ecosystem.
- Created dynamic Angular dashboards with TypeScript, HTML5, and CSS3 for real-time insights into transactions and adjustments, improving operational accuracy.
- Engineered RESTful APIs using ASP.NET 6 integrated with PostgreSQL and SQL Server to handle large-scale financial claims, audit logs, and settlements.
- Migrated legacy modules from ASP.NET MVC to ASP.NET 6, improving performance and scalability for high-volume transaction workloads.
- Built and deployed ML-driven models using Python and Scikit-learn to detect transaction anomalies and fraud patterns, boosting proactive risk mitigation by 20%.
- Automated claims analysis workflows with Python microservices and REST APIs, reducing manual review time by 30%.
- Secured identity management with Amazon Cognito and encrypted document storage via AWS S3, ensuring compliance with banking data governance.

- Implemented end-to-end testing using XUnit, Karma, and Jasmine, ensuring backend reliability in a continuous integration environment.
- Conducted API validation and performance testing using Postman and Swagger UI, guaranteeing seamless data exchange across financial systems.
- Collaborated with global Agile teams to deliver compliant, scalable backend solutions meeting SOX and PCI-DSS requirements.
- Automated deployment pipelines via AWS CodePipeline, Elastic Beanstalk, and CloudFormation, improving CI/CD throughput by 30%.
- Led secure code reviews to enforce defensive coding standards and maintain high-quality, auditable codebases.

Adons Softech **Sep 2019 - Jul 2022**

Software Engineer

- Developed responsive booking platforms using React, JavaScript, HTML5, CSS3, and Bootstrap, improving user engagement and optimizing front-to-back data flow.
- Built REST APIs with ASP.NET Core 3.1 integrated with PostgreSQL for dynamic pricing and booking workflows, improving data retrieval speed and reliability.
- Integrated AI-based fare prediction models using Python and Scikit-learn, enabling intelligent price recommendations and boosting customer conversion rates by 15%.
- Designed ML microservices that analyzed booking trends and peak usage patterns to enhance resource allocation and backend performance.
- Secured systems with OAuth2 and Amazon Cognito, protecting sensitive passenger data and ensuring compliance with privacy standards.
- Automated CI/CD deployments using AWS Elastic Beanstalk, CodePipeline, and CloudFormation, reducing release time and manual intervention.
- Optimized backend data access with Amazon RDS (SQL Server) and ElastiCache, cutting response latency and improving system scalability.
- Conducted API validation and OpenAPI 3.0 compliance via Postman and Swagger UI, ensuring consistent and reliable integrations.
- Wrote unit tests (NUnit) and frontend tests (Jest) to maintain high test coverage and ensure production stability.
- Integrated Stripe and PayPal for secure payments and implemented real-time analytics dashboards using Chart.js and Grafana for tracking reservations and sales insights.

EDUCATION

Campbellsville University, United States

Master's, Computer Science

PROJECTS

AI Course Generator | https://github.com/Meghanath1435/ai-course-generator

- Built a full-stack web app that uses AI to create complete online courses from simple inputs, automatically generating outlines and embedding YouTube videos for each topic.
- Designed and deployed using Next.js, PostgreSQL, Drizzle ORM, Firebase, and Shadcn UI, focusing on seamless UX and scalable backend logic.

Quiz Generator Using AI | https://github.com/Meghanath1435/Quiz-Generator-Using-AI

- Developed an interactive quiz platform powered by OpenAI’s GPT API that creates customized quizzes by topic, difficulty, and language in real time.
- Implemented a lively, animated UI with Framer Motion, Tailwind CSS, and audio features for an engaging learning experience.

Simple Chatbot | https://github.com/Meghanath1435/Chatbot

- Created a Python-based chatbot with a Tkinter GUI that responds to user inputs using fuzzy matching and predefined JSON responses.
- Focused on simplicity and extensibility, making it ideal for beginners to explore GUI and AI fundamentals.