Rohit shukla

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PROFILE SUMMARY

Software Engineer with over **4 years** of experience building **scalable distributed** systems and microservices. Expertise in **Go**, Java, and cloud-native architectures on **GCP**. Proven track record of improving system scalability by **40%** and reducing deployment time by **60%** through containerization and **CI/CD** automation. Strong background in event-driven architectures, **API design**, and database optimization. Hands-on experience with **AI-assisted** development tools (**Cursor**, **Claude**, **Copilot**) and agentic AI frameworks. Practiced TDD advocate with experience in fast-paced agile (**Scrum**) environments, mentoring junior engineers and driving code quality through structured review processes.

SKILLS

Languages: Go, Java, Python, SQL, HTML, CSS
Frameworks: Angular, Spring (Spring Boot, Spring MVC), Hibernate, gRPC, Microservices, System design, Servlets, JSP
Databases and Monitoring: MongoDB, PostgreSQL, Redis, Kibana, Elasticsearch, Datadog, BigQuery, Analytics Tools
Cloud & DevOps: GCP, AWS, Kubernetes, Docker, CI/CD, GAE, GKE, Terraform, Jenkins, Git
Security & APIs: OAuth 2.0, JWT, RESTful APIs,Postman, Spring Security, API Authentication
Message Queues: RabbitMQ, Pub/Sub
Testing & Quality: JUnit, Spock, Sonar, JMeter, TDD
AI & Agentic Tools: Copilot, Cursor, Google ADK, Gemini AI, RAG, MCP, OpenAI, LLM

WORK EXPERIENCE

Vendasta - Software Developer II
September 2024 - Current   Chennai, India

- Developed scalable distributed applications using Go on **GCP** with Datastore/Google Spanner persistence and **OAuth 2.0** authentication, serving high-throughput workloads.
- Architected microservices solutions with **Kubernetes** orchestration, improving system scalability by **40%** and achieving high availability with fault-tolerant **gRPC** communication.
- Deployed containerized services using Docker with monitoring via Prometheus and automated **CI/CD pipelines**, reducing deployment cycles by **60%**.
- Followed TDD practices across services, using JUnit for unit testing and Sonar for code quality enforcement, maintaining **80%**+ code coverage.
- Worked in an agile **Scrum** environment, actively participating in sprint planning, stand-ups, and retrospectives to deliver features on time.
- Used AI-assisted coding tools (**Copilot**, **Cursor**) to accelerate development and improve code consistency across the team.

Dataman Computer Systems - Associate Software Developer
February 2022 - September 2024   Kanpur, India

- Architected and deployed **5+ RESTful** microservices serving 10,000+ daily requests, reducing response time by 25% through optimized database queries and caching strategies.
- Led integration of 3rd-party payment and notification APIs, increasing transaction success rate from **85%** to **98%** with robust error handling and retry logic.
- Mentored **2 junior developers** on ORM best practices and code review processes.
- Delivered features iteratively in an agile Scrum setup, collaborating closely with QA and product stakeholders across sprint cycles.

HACKATHON

[**Google AI Agent Development Kit Hackathon**](Google AI Agent Development Kit Hackathon) **| Software developer & AI Developer**

- Designed and built a multi-agent AI system using **Google ADK** and **Gemini AI**, integrating Python **monitoring** agents with Google Cloud IoT for 100+ concurrent sessions.
- Implemented **RAG** based knowledge retrieval and **MCP** style agent communication protocols for autonomous decision-making across distributed sensors.
- Deployed ML models that improved crop yield forecasts by 35%, reducing manual garden maintenance by 70%.
- Architected the **multi-agent** communication layer, enabling real-time coordination between sensor, analysis, and action agents.

PROJECTS

Event Management Application

Technologies Used: Java, Spring Boot, Hibernate, Spring MVC, Spring Security, PostgreSQL, RESTful APIs, Docker, Redis, RabbitMQ, HTML5, CSS3, Thymeleaf, Cashfree, Twilio

- Built a **full-stack** event management system covering scheduling, ticketing, payments, and attendee management using microservices with containerized deployments.
- Integrated 3rd-party payment (**Cashfree**) and notification (**Twilio**) services, achieving **100% security** compliance and a **30%** improvement in user retention.
- Implemented comprehensive test coverage using **JUnit** and followed TDD practices throughout the development lifecycle, enforcing quality via Sonar.
- Optimized database queries and implemented **Redis** caching strategies, improving system response time and reducing manual overhead by **40%**.
- Accelerated deployment by **60%** through Docker containerization and **CI/CD pipeline** automation.
- Collaborated with a team of 4 developers, leading sprint deliverables and conducting structured code reviews in an agile Scrum environment.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University - Masters (Master Of Computer Application - MCA)

June 2020 - July 2022   Kanpur, India