



Tharani Kumar

Senior Software Developer

📍 Berlin, Germany

📞 +49 1575 6166625

✉️ ktharankumar.de@gmail.com

LinkedIn linkedin.com/in/ktharankumar

Github ktharankumar.github.io

SUMMARY

Senior Software Developer with 7 years of experience building scalable, **domain-driven** backend systems in Java / Spring Boot. Skilled in **concurrency**, database optimization, and cloud-native deployment (AWS / Kubernetes). Proven ability to design **distributed** architectures, enforce code quality, and deliver **performant**, secure solutions in agile environments. Led the development and deployment of a **\$60M banking** platform and a major stock-market application serving a large user base

CORE COMPETENCIES

Domain-Driven Design | Design Patterns | Java 17 | Spring Boot 3 | AWS (EKS, RDS, S3) | Docker | Kubernetes | Terraform | Kafka | GraphQL | API Security (OAuth2, JWT, PKI) | PostgreSQL | CI/CD | Performance Profiling | Code Review & Documentation | Agile Delivery

EXPERIENCE

[Odyssey Technologies Ltd, India](#)

Senior Software Developer

April 2023 – May 2025

- Designed and implemented **domain-driven** microservices in Java 17 and Spring Boot 3, improving modularity and simplifying system evolution across multiple business domains.
- Applied **design principles** and **structural patterns** to build maintainable, reusable service components supporting faster feature delivery.
- Enhanced **concurrency** and processing efficiency through **asynchronous** task execution, **optimizing** throughput under heavy system load.
- Led migration of core services to **AWS** (EKS, RDS, S3) using Docker and Terraform, achieving scalable and resilient cloud deployments.
- Conducted code **reviews**, technical **audits**, and performance **profiling** using JProfiler and Grafana.

Software Developer

April 2019 – March 2023

- Developed and maintained **RESTful** & **GraphQL** APIs in Java and Kotlin, enabling secure data flow across distributed financial systems.
- Improved database **schema** and query **performance** through indexing and **optimization**, reducing latency during peak transaction loads.
- Strengthened security using JWT, OAuth2, and PKI **authentication** frameworks, ensuring regulatory compliance and data integrity.
- Containerized** microservices with Docker and Kubernetes to streamline deployments and maintain environment consistency across stages.

Associate Developer

June 2018 – March 2019

- Created automation scripts and Linux utilities (Bash, AWK, SED) to manage logs, backups, and configurations.

- Supported debugging and optimization of backend modules via resource and performance diagnostics.
- Built cron-based health-check utilities ensuring uptime and proactive system monitoring.
- Collaborated on integrating Java modules with CLI tools to strengthen backend automation pipelines.
- Authored process documentation to improve knowledge sharing and operational reliability.

KEY PROJECTS & IMPACT

1. **Stock Market Transaction & Document Delivery System:** Designed and led backend development of a high-throughput trading platform handling real-time stock transactions and portfolio statements. Built modules for automated PDF generation, digital signing, and secure email dispatch, ensuring data integrity and compliance with financial regulations. Achieved 99.99% uptime and seamless handling of large-scale transaction volumes for institutional clients.
2. **Authentication & Security Gateway:** Architected a centralized authentication system functioning as a reverse proxy to secure all inbound application traffic. Implemented SSL/TLS termination, token-based validation, and role-based access control, ensuring encrypted communication and consistent identity management across distributed services. Strengthened system security posture and simplified client onboarding through unified authentication flows.

TECHNICAL SKILLS

- **Programming:** Java, Spring Boot, Kotlin, Erlang (functional programming), C++, Microservices, JavaScript/TypeScript, ReactJS
- **Databases:** MySQL, Oracle, Mnesia, Postgres
- **Scripting:** Bash (GREP, SED, AWK)
- **Networking & Protocols:** HTTP/HTTPS, SSH, TCP/IP, DNS, LDAP, SMTP, FTP
- **Agile Delivery:** Scrum, Kanban, Code Review, CI/CD
- **API & Data Exchange:** REST, SOAP, JSON, XML, MIME, PDF
- **Virtualization & Containerization:** Docker, Kubernetes
- **Security & Compliance:** OAuth, JWT, PKI, Data Protection

SOFT SKILLS

- Accountability & Ownership
- Mentoring & Knowledge Sharing
- Continuous Learning & Curiosity
- Adaptability to Change
- Proactive Problem Solving
- Clear Communication
- Cross-Functional Collaboration
- Structured & Analytical Thinking

EDUCATION

B.E - Computer Science & Engineering
Anna University, India (2014 –2018)

LANGUAGE COMPETENCY

German: Beginner (A1)
English: Fluent (C1)