DHANUSH KARTHIK K S

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PROFESSIONAL SUMMARY

Backend Software Engineer with hands-on experience in **backend development**, **microservices architecture**, and **RESTful API design** for secure authentication and fintech platforms. Proficient in **Java, Spring Boot, and Node.js**, with strong expertise in **server-side programming**, **OAuth2/JWT security**, and **performance optimization**. Proven ability to deliver scalable backend systems supporting **high concurrency** and **1M+ users**, while collaborating across teams to ship reliable, production-grade solutions.

EXPERIENCE

Software Engineer Level 1 | Grootan Technologies | Chennai **May 2024 – Present**

- **Designed and implemented secure, scalable backend authentication systems** for **3 major European banking clients**, supporting **1M+ users**, using **Spring Boot–based microservices** and **REST API development**; implemented **20+ authenticators** and **10+ authentication** flows (QR-based, push notification), improving reliability and login experience
- **Built and owned backend services for a digital document signing platform (Signer)**, enabling **dynamic signer sequencing** and **signature placement** for **500+ active users**; automated end-to-end signing workflows using **Flowable BPM Engine**, reducing **manual coordination by 70%**.
- **Integrated Qualified Electronic Signature (QES)** into backend signing workflows, ensuring **100% legal** and **regulatory compliance** across **banking and regulated enterprise environments**
- **Developed real-time signing and event-driven backend workflows** using **Node.js, Socket.io, and Server-Sent Events (SSE),** processing **1,000+ signatures** per month with strong auditability and access controls
- **Developed backend services for a vendor verification and risk assessment platform (Schufa)** used by **1,000+ users**, aggregating vendor credibility, financial health, and trust indicators across industries
- **Integrated 3+ commercial credit data providers** via **RESTful APIs**, implementing **server-side orchestration, caching, and data optimization** in **Node.js**, achieving **~2s average response time** for secure credit insights
- **Owned backend API design and server-side logic**, enforcing **OAuth2, JWT-based security**, scalability, and high concurrency across authentication, signing, and verification services.
- **Applied DevOps best practices for backend systems**, including **Dockerized microservices** and **CI/CD pipelines**, improving release reliability and reducing deployment friction

PROJECTS

Signer Miniapp - Digital Document Signing Workflow

- Designed and implemented a secure backend document-signing workflow supporting dynamic signer sequencing, used by 500+ active users
- Automated end-to-end signing orchestration using Flowable BPM Engine, reducing manual coordination by 70%
- Integrated Qualified Electronic Signature (QES) issuance into backend workflows, ensuring 100% regulatory compliance for enterprise and use

Schufa Miniapp - Vendor Verification & Risk Assessment Platform

- Developed backend services for a vendor-verification platform used by 1,000+ users, enabling real-time vendor credibility across industries
- Integrated 3+ commercial credit data APIs to aggregate financial scores, registration details, and trust indicators via RESTful API design
- Implemented server-side logic using Node.js, optimizing API orchestration, caching, and data retrieval, achieving ~2s average response time while maintaining secure access controls

Emails from WhatsApp

- Built a custom Node.js backend service enabling WhatsApp-to-Email communication using Twilio and Nodemailer APIs
- Designed asynchronous message-processing pipelines, reducing document-sharing time by 70% by eliminating cross-application switching
- Maintained sub-2-second average processing latency for message ingestion, transformation, and email delivery

TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Spring Framework, Spring Boot
- **Backend Skills:** Backend Development, Server-Side Programming, RESTful APIs, Microservices Architecture, API Design
- **Database:** PostgreSQL, MySQL
- **Tools:** Git, Redis, Docker, Keycloak

ACHIEVEMENTS

GROOT OF THE QUARTER - Q3 2024
For key contributions to technical discussions and implementation of QR authenticators, resulting in measurable reductions in authentication latency.

EDUCATION

Sri Krishna College of Technology **2020-2024**
Bachelor of Engineering in Computer Science and Engineering | CGPA: 8.85 Coimbatore, India