



Aravinda Bantwal Baliga

Senior Full Stack Developer | GS1/EPCIS & Supply Chain | Java (Quarkus) · Nuxt · Cloud-Native

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Summary

Senior Full Stack Developer with nearly a decade of experience in Healthcare and Supply Chain industry. Specialised in building cloud-native, full-stack applications using Java (Quarkus) and Nuxt/Vue, deployed on AWS and Kubernetes. Deep expertise in GS1 EPCIS standards, DSCSA compliance, and open-source tooling – including contributions to the GS1 EPCIS standard. Fluent in German and English.

Experience

benelog GmbH & Co. KG

Senior Full Stack Developer

Köln, Germany

December 2020 - Present

Building cloud-native, full-stack solutions in the supply chain and GS1/EPCIS ecosystem – from reactive backend APIs to production-ready frontends, DevOps infrastructure, and open-source tooling.

OpenEPCIS – Open-Source GS1 EPCIS implementation

- Test Data Generator capable of creating millions of EPCIS events in seconds based on supply chain design.
- High-performance XML ↔ JSON-LD document converter for large-scale event processing.
- Event Hash Generator to uniquely identify and deduplicate EPCIS events.
- URN ↔ WebURI converter to support EPCIS 2.0 standards and GS1 Application Identifiers.
- QR Code Generator with support for various custom configuration options.
- Active contributor to a community-driven initiative EPCIS Profile Checker (profile-checker.openepcis.io/).
- Developed the official openepcis.io and benelog.com website (frontend & content).
- Contributed to UI/UX design, technical decisions, toolchain improvements, and community outreach.

Cloud, DevOps & API Engineering

- Deployed and managed services on AWS and Kubernetes (EKS).
- Worked with Terraform for infrastructure-as-code and CI/CD pipeline management.
- Implemented API security including OAuth2, JWT authentication and Keycloak realm configuration.
- Managed deployments using kubectl, Lens, and AWS CLI.

Industry Contributions

- Active participant in the GS1 GSMP working group – credited in the official GS1 EPCIS standard document.

GS1 Germany GmbH

Master Thesis Student

Köln, Germany

June 2020 → November 2020

Thesis: Design and Realization of a Test Data Generator for EPCIS Events – developed in collaboration with GS1 Germany, laying the foundation for the open-source OpenEPCIS Test Data Generator.

- Designed and implemented an interactive tool to generate thousands of EPCIS events in seconds.
- Collaborated with industry users to gather requirements and deliver tailored solutions.
- Authored a comprehensive thesis report covering the full implementation and use cases.

Johnson & Johnson (formerly Surgical Process Institute)

Work Student - Quality Engineer

Chemnitz, Germany

March 2019 → May 2020

- Performed functional testing and maintenance ensuring optimal application performance.
- Reported bugs via Jira and worked closely with developers for feature enhancements.
- Developed a PractiTest-based tool to automate testing oversight, reducing manual effort.

Oracle Cerner (formerly Cerner Corporation)

Software Engineer

Bengaluru, India
June 2016 → September 2018

Worked on Revenue Cycle Management (RCM) – an enterprise portal used by hospitals across the USA for monitoring hospital revenue workflows.

- Developed complex CCL queries and automation scripts to reduce manual effort.
- Built a self-healing automation script to prevent ticket escalation to production.
- Created web applications for client contact management and report views.
- Mentored new team members through knowledge transfer sessions.

UST Global

Software Developer

Kochi, India
April 2015 → June 2016

- Developed complex SQL queries to automate data testing.
- Performed regular testing, maintenance and production deployments.
- Conducted regression testing to ensure release stability.

Skills

</> Programming Languages

Java · JavaScript · TypeScript · Python · PHP

Frameworks & Libraries

Quarkus · Spring Boot · Nuxt · Vue · AngularJS · SmallRye Mutiny · jQuery · Tailwind CSS · Apache Commons · Lombok

🌐 Web Technologies

HTML · CSS · REST APIs · OpenAPI · Swagger · WebSocket · Nuxt UI · Nuxt Content · Nuxt SEO · Nuxt LLMs

📄 Data Processing & Formats

Jackson · JAXB · SAX Parser · XALAN · JSON-LD · XML · XSD · XSLT · JSON Schema · ZXing

☁ Cloud & DevOps

AWS · Kubernetes (EKS) · Docker · Terraform · CI/CD · kubectl · Podman

🗄 Databases & Search

OpenSearch · MySQL · MS SQL Server · CCL · OAuth2 · JWT · Keycloak

🔒 Security & Auth

OAuth2 · JWT · Keycloak

🔧 Tools & Platforms

Git · GitHub · GitLab · Jira · Confluence · Postman · IntelliJ IDEA · VS Code · JUnit · Apache Jena · Drawflow · Ajv

📦 GS1 & Supply Chain

EPCIS 2.0 · GS1 Standards · DSCSA · OpenEPCIS · Digital Link · URN · WebURI

Education

Technische Universität Chemnitz

Web Engineering

Master of Science (MSc.)
Chemnitz, Germany • October 2018 → November 2020

Canara Engineering College

Electronics and Communication Engineering

Bachelor of Engineering (B.E.)
Mangalore, India • September 2010 → June 2014

Languages

English C1 · German B2 · Hindi · Kannada · Konkani · Tulu