



Aravinda Bantwal Baliga

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ABOUT ME

Experienced full-stack developer with expertise in building scalable & high-performance applications using front-end and back-end technologies. Proficient in Java, JavaScript, Vue.js, Nuxt, Quarkus, RESTful API, etc. Master's degree in Web Engineering from TU Chemnitz, Germany. Fluent in English and German. A brief overview of my project works can be found on [portfolio website](#).

WORK EXPERIENCE

Software developer

benelog GmbH & Co. KG [Dec 2020 – Current]

City: Kerpen | Country: Germany | Website: <https://openepcis.io>

Project: OpenEPCIS

An open-source implementation of the GS1 EPCIS standard. It comprises a variety of ready-to-use open-source projects, tools, and resources, offering seamless integration for the supply chain.

Some implemented projects:

- Developed a Test Data Generator that automates and creates millions of EPCIS events.
- Built an XML to JSON-LD converter, enabling the conversion of millions of events in seconds.
- Designed an Event Hash Generator to identify unique EPCIS events and prevent duplication.
- Created an EPCIS URN to WebURI converter tool to support EPCIS 2.0 standard.
- Implemented an EPCIS event validation tool to ensure XML/JSON events conform to schemas.
- Developed a tool to transform JSON-LD/RDF into XSD for complex data structures.
- Built various front-end web applications and REST APIs for users and developers.

Master Thesis

GS1 Germany [Jun 2020 – Nov 2020]

City: Köln | Country: Germany | Website: <https://www.gs1-germany.de>

Project: EPCIS Test Data Generator

A web-based tool for efficiently designing and generating EPCIS events adhering to the GS1 standard.

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

Working student

Johnson & Johnson (Previously Surgical Process Institute) [Mar 2019 – May 2020]

City: Chemnitz | Country: Germany | Website: <https://www.jnjmedtech.com/de-DE>

Project: SPI Player

A web application used by clinics to assist physicians/nurses with patient treatment.

- Supported regular testing and maintenance to ensure optimal application performance.
- Reporting bug tickets and collaborating with developers for application efficiency improvement.
- Created a PractiTest-based dashboard for testing oversight, reducing manual efforts.

Software Engineer

Oracle Cerner (Previously Cerner Corporation) [Jun 2016 – Sep 2018]

City: Bangalore | Country: India | Website: <https://www.cerner.com/de/de>

Project: Revenue Cycle Management (RCM)

Monitor patient revenue to ensure accurate healthcare provider balances.

- Developed complex CCL queries and automation scripts, reducing a lot of manual efforts.
- Developed a self-healing automation script to prevent ticket escalation to production support.
- Created a web application to replace Excel for client contact management for various teams.
- Built a backend tool to auto-generate tickets for tracking workloads from client domain automation.
- Supported new team members with tasks and provided knowledge transfer.

Software Developer

UST Global [Apr 2015 – Jun 2016]

City: Kochi | Country: India | Website: <https://www.ust.com>

Project: Provider Finder Service (PFS)

Health insurance application to search for healthcare providers in the US.

- Developed complex SQL queries to automate application data testing, reducing manual effort.
- Performed regular testing and maintenance to ensure smooth application functioning.
- Supported production deployments and conducted regression testing.

EDUCATION AND TRAINING

Master of Science (MSc.) - Web Engineering

Technical University of Chemnitz [Oct 2018 – Nov 2020]

City: Chemnitz | Country: Germany | Website: <https://www.tu-chemnitz.de> | Final grade: 2.1

Concepts covered include Software Service Engineering | Current Trends in the Web | Cloud and Web Applications | Data and Web Engineering | Agile Methodology | Distributed Systems | Solid Web etc.

Bachelor of Engineering (B.E.) - Electronics and Communication

Canara Engineering College, Mangalore [Sep 2010 – Jun 2014]

City: Mangalore | Country: India | Website: <https://www.canaraengineering.in> | Final grade: 2.1

Concepts covered include Computer Science | Electronics | C | C++ | Microcontrollers | Microprocessors | Analog and Digital Circuits | Image Processing | Logical Design, etc.

DIGITAL SKILLS

Programming Languages

Front-end: HTML, CSS, JavaScript, TypeScript, Hugo.

Back-end: Java, Quarkus, Spring, Python, PHP, etc.

Databases: MS SQL Server, MySQL, Cerner CCL, etc.

Others: Docker, PodMan, Kubernetes, Maven, Keycloak, etc.

Frameworks, Libraries & Others:

Front-end: Vue.js, Nuxt.js, AngularJS, jQuery, Tailwind CSS, Nuxt Content, PrimeVue, AJAX, NPM, WebSocket, i18n, etc.

Back-end: Jackson, SAX, JAXB/Jakarta, Moxy, OpenAPI, Jena, SwaggerUI, Lombok, Xalan, JUnit, Jinja, SmallRye Mutiny, Apache etc.

Project Management: GitLab, GitHub, Confluence, Jira, Agile/Scrum, etc.

Data Formats: XML, JSON, JSON-LD, YAML, CSV, XSD, XSLT.

Development Tools: IntelliJ IDEA, VS Code, Eclipse, Postman, etc.

Operating Systems: macOS, Windows, Linux.

MS Application: Word, Excel, PowerPoint, OneNote.

HOBBIES AND INTERESTS

Hobbies Playing Guitar, Rubik's cube solving, Fitness training, Listening to podcasts, Traveling, etc.