

# Amruthbalu M

Software Development Engineer

Kasavanahalli, Bengaluru, Karnataka, India, 560035

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## EDUCATION

### Bapuji Institute of Engineering and Technology

Bachelor of Engineering in Electronics and Communication; CGPA: 7.51/10

Davanagere, Karnataka, India

July 2018 – August 2022

## TECHNICAL SKILLS

**Programming Languages:** Core Java, Python, HTML, CSS.

**Frameworks and DevOps:** Spring Boot, Git, JIRA, ReactJS, Docker, Microsoft Azure.

**Cloud Computing:** Azure services, cloud computing platforms, and cloud infrastructure.

**Database:** PostgreSQL, MySQL, Windows, Linux, GitHub Actions (CI/CD).

**Testing and Automation:** Selenium, Playwright, Opkey, Postman.

**Miscellaneous:** Data Structures and Algorithms, Object Oriented Programming, System Design, Analytical and Problem-Solving Skills.

## PROFESSIONAL EXPERIENCE

### KPMG Global Services

Associate Consultant

Bengaluru, Karnataka, India

Oct 2024 - Present

- Successfully completed 1400+ automated test cases across R2P, A2R, P2R, O2C, R2R, EPM, Coupa as part of total scope for Oracle Fusion using Opkey for an US based client.
- Developed a reusable code solution for Data Management, automating package imports into **Microsoft Dynamics**, leading to a **40% reduction in manual effort** and enhancing overall system performance.
- Additionally, the logic will utilize data structures and algorithms which dynamically fetches the number of similar data packages and creates projects based on it..
- I successfully completed this POC in addition to meeting all project deliverables.
- This POC was successfully built in a span of 2 Weeks.

### KPMG Global Services

Analyst

Bengaluru, Karnataka, India

Nov 2022 - Oct 2024

- Designed and developed over 800 automation test scripts for Oracle ERP, Finance, and HCM domains, utilizing Java-based automation tools **such as Selenium, Playwright, and Opkey** to ensure rigorous and efficient testing workflows.
- Built an automated framework for the scheduled processes module in Oracle ERP, enabling automatic extraction of report parameters and significantly enhancing efficiency.
- The solution I designed and developed is aimed at automating the process of fetching input parameters for each process and saving them in an Excel sheet. This automation effort significantly reduces the effort required to create test cases for each process.
- To handle field changes that can occur after Oracle Patch Upgrades, I incorporated a logic that is adaptable and can easily accommodate such changes. This ensures smooth functionality even with updates to the Oracle system.
- Overall, this solution streamlines the automation process, minimizes effort required for creating test cases, handles field changes, and provides detailed reporting through Excel sheets and error screenshots.
- The Solution reduced almost **91.67%** of effort involved in the automation process.

## PROJECTS

### Microservices Architecture & Security Framework 🐙 | Spring Boot, Spring Security, JWT, OAuth2, Key Cloak, Eureka

- Designed and implemented a microservices architecture using **Spring Boot**, enabling efficient inter-service communication with **Feign clients** and **Netflix Eureka** for dynamic service discovery.
- Configured and deployed an **API Gateway**, centralizing request routing and enforcing security measures to safeguard microservice endpoints.
- Implemented robust authentication and authorization mechanisms, integrating **JWT-based security** and **Spring Security 6** for service-to-service and client-to-service access control.
- Enhanced security model with **OAuth2** and **Key Cloak**, streamlining authentication management, securing APIs, and ensuring scalable identity provider integration.

### Online Bookstore using Spring Boot 🐙 | Spring Boot, Spring Security, Spring Data JPA, Eureka, My SQL, Swagger

- Developed a microservices-based **Online Bookstore System** using **Spring Boot, Spring Cloud, Netflix Eureka, and Spring Security**, enabling dynamic service discovery, API Gateway routing, and secure user authentication.
- Designed and implemented **RESTful APIs** with Swagger UI for documentation, ensuring seamless inter-service communication and streamlined API exploration.
- Integrated **MySQL with JPA/Hibernate** for efficient data management, optimizing CRUD operations across **Book, Order, and Inventory services** while ensuring persistence and scalability.
- Performed **API testing with Postman** and deployed hosted documentation on GitHub Pages, improving reliability, debugging efficiency, and accessibility of technical resources.

### Master DSA: Learning Platform 🐙 | React, HTML, CSS, JavaScript, Router DOM

- Developed a **React-based educational platform for Data Structures and Algorithms**, utilizing React Router DOM for client-side routing and React hooks (useState, useEffect) for state and lifecycle management.
- Implemented modular and reusable components for various DSA topics, structured with semantic **HTML5 tags** and styled using **Tailwind CSS** and custom CSS for a responsive, user-friendly interface.
- Enhanced user experience with dynamic animations and transitions using **Framer Motion**, ensuring smooth navigation and interactivity across the platform.
- Optimized performance and deployment using React Vite for faster builds and automated hosting via GitHub Pages.

## CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Java Foundations Professional Certificate by JetBrains
- Microservices Foundations Professional Certificate by Kong
- ISTQB Certified: Foundation Level
- Digital and Data Foundations – Artificial Intelligence and Automation