

Amshuman Krishna S

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Work Authorization - Open Work Permit (W308342244)

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KEY ACCOMPLISHMENTS

- Spearheaded the **transition from a monolithic architecture to microservices**, enhancing system scalability and reliability.
- Enforced OAuth 2.0 and JWT for secure authentication, enhancing the application's security posture and compliance with industry standards.
- Designed and developed RESTful APIs for a key enterprise application, which integrated with multiple third-party services and **supported 1 million+ API requests per day, ensuring high availability and scalability**.
- Implemented Docker, Kubernetes and (CI/CD) pipeline to streamline application deployment, resulting in a **60% increase in deployment efficiency** and **enhancing overall workflow automation**.

TECHNICAL SKILLS

Skills: Java (9 years), Spring Boot (3years), Microservices (3 years), SQL (4 years), React JS, HTML, CSS, JS, AWS, Kafka, Git, Postman, Couchbase, Gradle, Docker, Kubernetes.

Certifications: AWS Certified Cloud Practitioner, AWS Certified Developer Associate

WORK EXPERIENCE

Application Developer | IBM India Private Ltd

January 2022 - Present

Client - American Express (Domain - Financial Services)

Technologies: Java, Spring Boot, Microservices, Vertx, SQL, Couchbase, DevOps, Kafka, Postman.

- Contributed to all phases of the software development lifecycle, including analysis, design, implementation, testing, and deployment, ensuring timely and high-quality deliveries.
- Collaborated with Product Managers, QA, and DevOps teams to ensure seamless integration and feature delivery, **reducing post-release defects by 25%**.
- **Developed and maintained technical documentation** for system architecture, APIs, and technical workflows, ensuring clear communication across teams and **reducing onboarding time** for new developers by **25%** while improving cross-team alignment and collaboration.
- Engineered and managed high-performance RESTful APIs using **Vert.x** and **Spring Boot** within a **microservices architecture**, optimizing response times by 30% and ensuring seamless integration across web and mobile platforms.
- Leveraged Kafka for real-time event-driven data streaming, ensuring seamless microservice communication and proactively mitigating downtime incidents, resulting in a **15% increase in system uptime**.
- Championed rigorous testing protocols using **Junit** and **Mockito**, elevating code quality and ensuring the delivery of virtually bug-free application releases.
- Sustained code integrity using Git for version control while facilitating efficient collaboration across development teams, and led code reviews to mentor junior developers, driving quality best practices.

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Senior Process Associate | Tata Consultancy Services, India

December 2017 - January 2022

Client - Sainsburys (Domain - Retail)

Technologies: Java, Spring Boot, Microservices, React JS, SQL, Unix Shell scripting, DevOps, AWS, Kafka, Postman

- Collaborated with the functional team to gather and understand business and technical project requirements.
- Built and maintained RESTful APIs using Spring Boot, improving data flow and service modularity, contributing to a **25% increase in application efficiency**.
- Organized code reviews that led to a **40% reduction in code defects** and improved overall code quality.
- Created technical documentation for design, development, and deployment, **reducing onboarding time by 20%**.
- Conducted thorough testing and debugging, ensuring high-quality deliverables and achieving nearly bug-free application releases.
- Employed **DevOps practices** to streamline development workflows and improved deployment efficiency.
- **Strengthened application security** with **OAuth 2.0** and **JWT**, ensuring data protection and compliance with industry standards.
- Executed code refactoring and performance tuning strategies that resulted in a **20% improvement in load times** for key applications.

Java Developer | BrTech, India

August 2015 - December 2017

Technologies: Java, Struts, HTML, CSS, jQuery, JavaScript, SQL, Spring Core MVC, Eclipse, Docker, Kubernetes

- Collected project requirements to deliver customized, user-centric solutions, enhancing client satisfaction.
- Built and optimized CRUD operations in Struts applications, enhancing efficient data management and improving interaction with back-end systems.
- Proactively troubleshoot and resolved performance bottlenecks, bugs, and production issues in a timely manner, enhancing application uptime and reliable functionality.
- Automated deployment processes using Jenkins, Docker, and Kubernetes, reducing manual efforts and resulting in a **20% reduction in deployment times**.
- Constructed dynamic web applications and generated responsive UIs using HTML5/CSS3, JavaScript ensuring an intuitive user experience.
- Utilized Git for version control, **reducing merge conflicts** and **improving team collaboration**.
- Applied automated testing methodologies using JUnit and Mockito for unit, integration, and end-to-end testing, leading to a **50% reduction in testing time** and ensuring high-quality releases.

EDUCATION

PG Diploma in Software Development | CDAC, India

Feb 2015 - Aug 2015

Bachelor of Engineering in Computer Science and Engineering | Anna University, India

Aug 2010 - Apr 2014