Dinesh Purushothamacharya

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SUMMARY

Over 13 years of experience in application design and development spanning Automotive, Healthcare, and Creative Platform domains, I excel in the entire software development lifecycle (**SDLC**) using **Agile (SCRUM)** methodologies. I am a collaborative team player with strong communication and interpersonal skills, adept at working both independently and as part of a team. I am known for my quick adaptability to emerging technologies that enhance business efficiency.

TECHNICAL COMPETENCE

- Proficiency in **Java/Kotlin** JVM languages to create robust, scalable, and high-performance applications.
- Experience in designing and implementation of multi-tier applications using web-based technologies like **Spring MVC** and **Spring Boot**.
- Utilized **Docker, Kubernetes**, and **AWS** services like **SQS** and **Lambda** for seamless deployment and scaling.
- Expertise in migrating a monolithic application to highly scalable and fault tolerant distributed microservices.
- Proficiently designed, developed and optimized complex database structures utilizing both relational database management systems (RDBMS) like **MySQL**, **Oracle** and **PostgreSQL**, as well as **NoSQL** databases like **MongoDB** and **Cassandra**. This ensured efficient data storage, retrieval and manipulation to support the robust functionality of Java applications.
- Implemented and optimized messaging services, including **Apache Kafka** to facilitate seamless communication and data exchange between microservices.
- Designed event-driven architectures, ensuring reliable and efficient message distribution and processing across the application ecosystem.
- Spearheaded the establishment and automation of robust CI/CD pipelines, leveraging cutting-edge tools such as **Jenkins**, **Gitlab CI**. This strategic initiative ensured the seamless and dependable rollout of software upgrades and improvements, enhancing the overall development and delivery processes.
- Experience in creating architectural project documentation using **Miro** and **C4** models.
- Proficient in debugging, troubleshooting, and resolving software issues.
- Skilled in Agile methodologies, with successful project delivery using Scrum and Kanban frameworks.
- Demonstrated proficiency in utilizing a comprehensive suite of testing tools including **JUnit**, **K6**, **JMeter** and **Postman Flows**, effectively conducting unit, integration, functional and API testing to ensure the reliability, functionality and performance of software applications.
- Committed to staying current with emerging trends and technologies in full-stack development.

WORK EXPERIENCE

Senior Software Engineer II   Feb 2024 - Present
System Edge | New Jersey, US

- Developed scalable API services that caters features to many customers.
- Analyze the client requirements and produce a design document.
- Led the team to develop application products for the given client requirements.
- Deploy the services onto a cloud environment.
- Monitor services deployed on the cloud.
- Mentor the juniors to level up the knowledge within the team.

Senior Software Engineer II   Aug 2021 - Feb 2024
Picsart | Berlin, Germany

- Strategically optimized the product's infrastructure on AWS, resulting in a remarkable cost **reduction of over 50%** while fortifying network security.
- Developed scalable API services to cater **Generative AI** features to millions of customers.
- As lead engineer, provided a cost effective b2b solution to deliver all the AI solutions to internal customers in a very quick time.
- Led the development of modular web applications harnessing the power of **React, Spring WebFlux, Kotlin coroutines** ensuring optimal user experiences through intuitive interfaces.
- Designed and implemented a solution to track the revenue generated by our customers using **Kafka** Event-Driven Architecture.
- Demonstrated fiscal responsibility by choosing Apigee over developing a standalone service, resulting in significant cost savings for the company.
- Improved the Observability of the services by introducing **Datadog** Synthetic tests and alerting.
- Slashed API service latency by 30% by leveraging Cloudflare CDN for response caching.
- Implemented a continuous testing strategy with **Gitlab, k6,** and **Prometheus** to elevate service quality.
- Improved the quality of microservice by integrating with **Sonarcloud**.

Senior Software Engineer I   Sep 2015 - Aug 2021
Oracle Cerner | Bangalore, India

- Contributed as a proactive Java Developer in the development of two distinct web-based applications, meticulously adhering to the principles of **Test-Driven Development (TDD)** and the Agile methodology.
- Pioneered the design and development of micro service architectures, utilizing cutting-edge Java technologies such as **Spring Boot** and **Spring Cloud**. Conceptualized and implemented modular, loosely-coupled services that enabled efficient scalability, easy maintenance and rapid deployment.
- Orchestrated the creation of robust **RESTful** web services for ePrescription using Jersey, seamlessly producing versatile XML and JSON outputs to facilitate diverse tasks. These services

became integral to the functionality of both web and mobile applications, forming a cornerstone of the architecture.
- Built a service orchestrator to deliver seamless service to customers of healthcare organizations
- Gathered requirements and developed an interoperable solution for CPIS and PDS National Health Service
- Co-ordinated projects with onshore clients effectively leading to successful project outcomes.
- Designed API discovery system for iPaaS using OpenAPI and Elastic distributed server.
- Identifies software engineering process improvements, and enforces the execution of them across the organization.
- Automated a manual configuration system using **Jenkins CI** pipeline which reduces time to market by 60%
- Design and developed a solution that reduces the cost to company by 10% for NCPDP releases
- Improved the test coverage by 25% for ePrescription enterprise java servers

Software Engineer   Aug 2010 - Sep 2015
Continental Automotive Components | Bangalore, India

- Participated throughout the entire SDLC, encompassing analysis, design, development and testing phases, while applying **Agile (SCRUM) methodologies** for efficient software development.
- Crafted responsive and user-centric web applications employing **Java, HTML5, CSS3** and **JavaScript** technologies, ensuring an enhanced user experience
- Applied core Java concepts such as inheritance, polymorphism, encapsulation and abstraction to develop robust and maintainable software solutions, ensuring adherence to best practices and coding standards throughout the development lifecycle.
- Designed and implemented modular plugins and an RCP-based Infopool application for Testbench operations. Developed complex widgets for a Tools management application using SWT/JFace.
- Created a new web service to retrieve instrumentation data from sensors and actuators.
- Automated ECU configuration, **improving efficiency by 25%**.
- Contributed to performance tuning of enterprise services.
- Gained expertise in component-driven architecture for developing modular applications.
- Created JUnit test cases to enhance software quality.
- Demonstrated proficient version control and source code management by utilizing **GitLab** for efficient collaboration and **Git** for code repository management.

EDUCATION

Bachelor of Engineering in Computer Science
Visvesvaraya Technological University (VTU), Belgaum, Karnataka

SKILLS

Kotlin | Java | JavaScript | Backend Development | Spring Boot | Reactive Programming | NodeJs | Express | REST | | SOAP | GraphQL | WebSockets | gRPC | MySQL | MongoDB | Oracle | Database | SP, JDBC, Log4J, Transaction Management Thread Management | Replication | Sharding | Redis |

Kafka | Cloudflare CDN | S3 | DevOps | Docker | Docker Compose | Kubernetes | CI/CD | Cloud | AWS | GCP | Jenkins | Gitlab | Automation | Logging | Monitoring | Dataddog | Prometheus | Grafana | Apigee | Project Management | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity | ReactJS, CSS, HTML | SQL Server | J2EE