

# Dinesh Purushothamacharya

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## SKILLS

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### Programming Language / Technologies

Java, Kotlin, JavaScript(ES6), HTML, Reactive Programming, Spring Cloud, NodeJs, REST, GraphQL, WebSockets, ProtoBuf, Apache Kafka, Maven, Gradle, Vert.x, K6, JMeter, Gatling, JUnit, Apigee, AWS Lambda

### Datastore

MySQL, MongoDB, Redis, S3, AWS RDS, GCP PubSub, Cloudflare CDN

### Devops

Jenkins, Gitlab, Docker, Kubernetes, Helm, GCP, Grafana, Prometheus, Datadog APM, Pagerduty

## PROFESSIONAL EXPERIENCE

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### Picsart

Senior Software Engineer II

Berlin, Germany

Feb 2023- Present

- Constructed immensely scalable API services providing **Generative AI** features to millions of customers.
- As a module leader, designed and implemented a **Kafka-driven workflow** automation system to streamline user journeys.
- Demonstrated fiscal responsibility by choosing **Apigee** over developing a standalone service, resulting in significant cost savings for the company.
- Conducted synthetic tests to **monitor application performance** and trigger alerts based on predefined criteria using **Datadog**.
- Built a lightweight service for image storage and retrieval with Spring Boot and Kotlin.
- Slashed API service latency by **30%** by leveraging **Cloudflare** CDN for response caching.

### Picsart

Senior Software Engineer II

Bangalore, India,

Aug 2021- Jan 2023

- Led the project to develop an asset management service using Spring WebFlux and Kotlin Coroutines.
- Implemented a **continuous testing strategy** with Gitlab, k6, and Prometheus to elevate service quality.
- Strengthened system **fault tolerance** through the integration of Circuit Breaker.
- Enhanced core service quality by integrating with **Sonarcloud**.
- Designed a **Grafana dashboard** for measuring API service performance metrics.
- Managed Apigee proxies for diverse API products catering to multiple customers.
- Created Swagger documentation for all necessary API tests before UI integration.
- Participated in an internal API Hackathon organised by PicsArt.

### Oracle Cerner

Senior Software Engineer I

Bangalore, India,

Aug 2018- Aug 2021

Responsible for development and unit testing of interoperable solutions to UK NHS healthcare organization

- Built a **service orchestrator** to deliver seamless service to customers of health care 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.
- Active involvement in the development of legacy CCL to Java migration project.
- 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.

## Oracle Cerner

Senior Software Engineer

Bangalore, India,

Sep 2015- Jul 2018

Responsible for development ePrescription solution for Surescripts

- Built Rest service to deliver ePrescription features for customers using Surescripts.
- Automated a manual configuration system using Jenkins CI pipeline which **reduce time to market by 60%**
- **Project coordination** with various business units leading to successful project outcomes.
- 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
- Exposed Spring Boot service to retrieve messages from legacy patient management system
- Over **1000+** lines of code in building various API service using java and enterprise java server
- Enhanced various features for allergies and medication healthcare services
- Uplifted legacy systems to adapt to defined tech standards

## Continental Automotive Components

Software Engineer

Bangalore, India,

Aug 2010- Sep 2015

Responsible for development and testing of Instrumentation components for Automobile Industry

- Study and analysis of project requirements, preparation of Functional Specifications, Data modeling, design and implementation.
- Implemented **modular plugins** and RCP based Infopool application for Testbench operations
- Created complex widgets for Tools management application using **SWT/JFace**
- Exposed new **web service** to retrieve instrumentation data from automobile.
- Involved in developing automation for configuring ECU (improved efficiency by **25%**).
- Contribution towards **performance tuning** of enterprise service
- Design and Built **Java Struts** web application to manage project details for the organisation.
- Gained knowledge in component-driven architecture to develop modular applications.
- Created **JUnit** test cases to improve the quality of the software.
- Successfully presented **Maven** project management topic to the entire organisation
- Prepared and presented software development plans to project leads.
- Performed Coding/Programming tasks for the specification and in accordance with development standards.
- Involvement in technical discussion for database designing

## RELEVANT PROJECTS

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### Twitter Sentiment Analysis

- Exposed a backend service that uses **ELK** and **MongoDB** stack to analysis twitter sentiments for Pharma Industry
- Deployed the Docker Images on AWS EC2
- Built user friendly mobile app to read the Tweets using React Native

### E-Commerce System using Strapi

- Created an e-commerce platform using headless CMS Strapi
- Containerized and deployed to private linux cluster

### Scalable News Content System

- Designed and developed an highly scalable content management system for news publication organisation.
- Services are deployed on to **AWS EC2** instances with **ELB** for load balancing.

## EDUCATION

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### Visvesvaraya Technological University (VTU), Belgaum, Karnataka

Bachelor of Engineering in Computer Science