Vicky Venil Machado

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SKILLS

Programming Languages: Java, Javascript ,Kotlin, Python, C++, C
Backend Development: Microservices, Spring Boot, ExpressJS, Node.js, Flask, REST API, Hibernate
Frontend Development: React, Angular, CSS, Bootstrap, Jquery, HTML
Web Technology & Database: Django, MySQL, ORM, MongoDB, Kafka, Redis, PostgreSQL
AWS Cloud: AWS EKS, S3, EC2, Dynamo-DB, API-Gateway, Lambda, Transcribe, Comprehend, Cognito, SQS
DevOps: Kubernetes, Container Orchestration, Docker, Cluster Management, Monitoring and Logging, Resource Management
Software Development Practices: Agile, Scrum, Test Driven Development, Github, DevOps, Continuous Integration
Tools: Intellij, SQL Developer, Linux, Windows, Git, Jira, Jenkins, AppDynamics, DataDog, Qlik Sense

EXPERIENCE

Oracle **Bangalore, India**
Software Developer Jul 2022 - Jun 2023

- Led migration, design, development, and deployment of 2 PL/SQL retail banking applications into **microservices architecture**, achieving **30%** reduction in response times and enhancing system reliability by **40%**.
- Orchestrated E2E creation of lending products and configured monitoring tools boosted operational efficiency by **35%** and decreased downtime by **20%**.
- Introduced **data security** measures in backend services, ensuring industry compliance and enhancing system security and **optimized technical computations**, reducing processing time by **25%**.
- Developed and automated an efficient algorithm to delete old **Redis keys** created without TTL to eliminate **2 hour(s)** of manual deletion to keep the disk space in check.
- Streamlined an automated process for downloading and comparing key application deliverables with an **83%** overall time gain.
- Innovated Java annotation for handling business-required exceptions, utilized across 12 microservices.
- Sustained code coverage above **95%**, performed code reviews, CI/CD pipelines integration, performance testing, and E2E testing.

HSBC **Pune, India**
Senior Software Engineer Mar 2022 - Jul 2022

- Engineered and rolled out efficient and highly scalable microservices for banking applications, resulting in improved system performance and reliability and enhancing scalability by **50%**.
- Unified mobile and desktop APIs into single entry points, enhancing code reuse by **60%**, performance by **35%**, and reducing maintenance efforts by **50%**.
- Maintained test coverage for every feature above **90%**, ensuring functionality verification across all aspects.

Software Engineer Jul 2019 - Mar 2022

- Automated HSBC's flex notional rate updates, reducing errors by 90% and boosting efficiency by 75%. Received departmental recognition in 2022.
- Authored multiple scripts via cron Job using Spring Framework to efficiently upsert million enteries in **MySQL tables via RMQ** which eradicated **2.5** hours of user-driven activity each day.
- Enhanced system metrics through telemetry integration, enabling detailed logging and API correlation with vector contexts, which improved issue detection and resolution of online bugs by **40%**.
- Launched the Reach Us application to address employee grievances, enhancing internal communication and improving problem resolution efficiency by **30%**. Received a **Pat on the Back Award** for expeditious delivery, **2019**

PROJECTS

Valorant TeamForge AI for AWS VCT AI Hackathon Sept 2024 - Oct 2024

- Designed Valorant TeamForge AI, an intuitive chat interface for scouting and recruitment in competitive esports, leveraging MongoDB, Amazon Bedrock, and Flask.
- Enhanced system responsiveness by reducing latency by **60%** using multithreading.
- Developed an efficient ETL pipeline to process **1.4 TB** of esports data, condensing it to 6MB while retaining critical metrics.

Notification Scheduling Service Jun 2024 - Jul 2024

- Created a robust RESTful notification scheduling service using Spring Boot 3, Spring Data JPA, Quartz Scheduler, and SQL.
- Optimized data handling with Jackson for scalable payloads, enhancing reliability, increasing user engagement by 25%, and reducing scheduling errors by 30%

Elastic Video Analysis Application Using AWS PaaS Jan 2024 - May 2024

- Architected an elastic video analysis app using AWS Lambda and S3, cutting infrastructure costs by **40%**.
- Implemented FFmpeg for video frame extraction and ResNet-34 with SSD algorithm for face recognition, ensuring scalable and cost-effective video processing, improving processing speed by **50%**.

EDUCATION

Arizona State University, Tempe, Arizona, USA Aug 2023 - Present
Masters of Science in Computer Science

Bangalore Institute Of Technology, Bangalore, Karanataka, India Jul 2015 - May 2019
Bachelor of Engineering in Electronics and Communication