

Vicky Venil Machado

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EDUCATION

Master of Computer Science, Arizona State University Aug 2023 - Present
Relevant Coursework: Cloud Computing, Multimedia and Web Databases, Software Design, Software Security *GPA 3.56*

Bachelor of Engineering in Electronics and Communications, Bangalore Institute Of Technology Jul 2015 - May 2019
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Application Programming *GPA 3.43*

SKILLS

Programming Languages: Java, C++, C, Python

Frameworks & Libraries: Spring-Boot, React, Ruby On Rails, AWS, Express, Node, Docker, S3, Hadoop, Kubernetes, Tailwind

Web Technology and Database: Java, Angular, Django, HTML, Bootstrap, Node, CSS, MySQL, MongoDB

Tools: IntelliJ, SQL Developer, Linux, Windows, Git, Jira, Jenkins, AppDynamics, DataDog, VSC, PyCharm, Qlik Sense

EXPERIENCE

Software Developer 2, Oracle Financial Services Software, Bangalore, India Jul 2022 - Jun 2023

- Led migration, design, development, and deployment of 2 PL/SQL retail banking applications into **microservices architecture using Spring-Boot framework**, achieving **30%** reduction in response times and enhancing system reliability by **40%**.
- Orchestrated end-to-end creation of lending products, from setting system requirements to engineering and testing software, and configuring monitoring tools; boosted operational efficiency by **35%** and decreased downtime by **20%**.
- Streamlined an automated process for downloading and comparing key application deliverables, resulting in an **83%** overall time gain.
- Innovated custom annotation for handling business-required exceptions, utilized across 12 microservices, and integrated into CI/CD pipelines, load/stress testing, and E2E testing.

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

- Engineered and rolled out **RESTful APIs within a microservices** architecture for commercial banking apps, streamlining data access 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%**.

Software Engineer, HSBC Software Development India, Pune, India Jul 2019 - Mar 2022

- Developed an automation tool for HSBC DBB UK, **eliminating manual updates** of flex notional rates for cross-currency payments, reducing errors by **90%** and boosting efficiency by **75%**.
- 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%**.

PROJECTS

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 and scheduling precision, utilized Jackson for scalable payload handling and enhanced reliability, leading to a **25%** increase in user engagement and a **30%** reduction in scheduling errors.

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

- Architected an elastic video analysis application leveraging AWS Lambda for serverless computing and S3 for data storage, reducing 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%**.

Vehicular Communication Using LI-FI To Avoid Collision Aug 2018 - Mar 2019

- Devised a collision avoidance system utilizing LI-FI technology for vehicular communication, enabling data exchange between vehicles to prevent accidents and improving data transmission speed by **45%**.
- Integrated a speed monitoring feature to ensure the hind vehicle does not surpass the fore vehicle's speed, enhancing road safety and reducing collision incidents by **35%**.

Intelligent Farming System Aug 2018 - Mar 2019

- Completed an IoT-based Greenhouse Automation System to monitor and control environmental factors in real-time.
- Designed an integrated Android application for seamless monitoring, alerts, and control of critical actions like watering and pest control, improving plant care efficiency and reducing manual intervention by **50%**.

ACHIEVEMENTS

- Received **Recognition on Talent** at departmental level — HSBC Technologies, 2022
- Received **Pat on the Back Award** | HSBC Technologies, 2019