

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 July 2015 - May 2019

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Application Programming *GPA 3.43*

SKILLS

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

Frameworks & Libs: 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, Appd, DataDog, Sublime text, VSC, PyCharm, Qlik Sense

EXPERIENCE

Senior Software Engineer, Oracle Financial Services Software, Bangalore, India

July 2022 - June 2023

- Migrated, designed, developed, and deployed 2 PL/SQL retail banking applications into **microservices architecture under Spring-Boot** framework adhering to strict deadlines.
- Lead the development of lending products E2E, managing system requirements, workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Developed and optimized an automated process for downloading and comparing crucial application deliverables, achieving an overall time gain of 83
- Designed and developed custom annotation for wrapping and throwing business-required exceptions under **plato-architecture used across 12 different microservices**.
- Continuous Integration/Deployment, Pipeline Integration, code reviews, load/stress testing, E2E testing.

Senior Software Engineer, HSBC Software Development India, Pune, India

March 2022 - July 2022

- Developed and deployed **RESTful APIs within a microservices architecture** for commercial banking apps.
- Led a team in migrating and merging mobile and desktop APIs into **single entry APIs**, optimizing code reuse (60%), improving performance (35%), and significantly reducing maintenance efforts (60%).
- Designed and developed various implementations of **payments and customer onboarding experiences**, and implemented key features for desktop and mobile applications for HSBC BB UK.

Software Engineer, HSBC Software Development India, Pune, India

July 2019 - March 2022

- Developed an automation tool for picking and updating the **flex notional rates for cross currency payments HSBC DBB UK**.
- Enriched systems metrics by **integrating platforms with telemetry; facilitating in-depth logging** by correlating APIs with vector contexts.
- Developed an automation tool for **testing and monitoring production APIs**.
- Architected, developed, and deployed the **Reach Us (employee pain point box) application to redress employee grievances**.

Intern, B.S.N.L, Bangalore, India

July 2018 - Aug -2018

- Trained on Optical Fibre Cable and Fiber to the Home (FTTH) networking concepts.

PROJECTS

Elastic Video Analysis Application Using AWS PaaS

Jan 2024 - May 2024

- Developed an elastic video analysis application using **AWS PaaS**, leveraging AWS Lambda for serverless computing and S3 for data storage. Implemented FFmpeg for video frame extraction and ResNet-34 with SSD algorithm for accurate face recognition, ensuring scalable and cost-effective video processing.

Vehicular Communication Using LI-FI To Avoid Collision

Aug 2018 - March 2019

- Developed a collision avoidance system using **LI-FI** technology for vehicular communication, enabling data exchange between vehicles to prevent accidents. Implemented a **speed monitoring** feature to ensure the hind vehicle does not surpass the fore vehicle's speed.

Intelligent Farming System

Aug 2018 - March 2019

- Developed an IoT-based **Greenhouse Automation System** to monitor and control environmental factors in real-time. Created an integrated Android application for seamless monitoring, alerts, and control of critical actions like watering and pest control, enhancing plant care efficiency.

ACHIEVEMENTS

- Received **Recognition on Talent** at departmental level — HSBC Technologies, 2022
- Received **Pat on the Back Award** | HSBC Technologies, 2019
- Runner ups in the **SINCHRONA** Technical Project Competition conducted by E.C.E department | B.I.T