VARSHA BHAT

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PROFESSIONAL SUMMARY: Software Engineer II with 5+ years of experience building scalable backend systems, automating infrastructure, and delivering cost-saving cloud solutions. Proven ability to lead cross-functional efforts, mitigate production incidents, and redesign internal workflows.

SKILLS: Java, Python, Bash, MongoDB, Microsoft Azure, Kubernetes, Nexus, SonarQube, Jenkins, Github, Web Applications, Oracle SQL Developer

EXPERIENCE

LUMEN TECHNOLOGIES

Software Developer II - Milpitas, CA, USA

Jun 2023-Present

- Architected and delivered a cloud-based alternative to physical Customer Premise Equipment (CPEs) using Azure VMs and ARM templates, enabling fully automated infrastructure provisioning.
 - o Collaborated with **5+ cross-functional teams** and external vendors to research and integrate networking components (**Virtual Machines, NICs, public IPs**), resulting in a production-grade solution with zero post-launch incidents and positive user feedback from clients for ease of use, along with **leadership recognition**.
 - o **Replaced manual hardware workflows** procurement, configuration, and shipping with **instant, cloud-based provisioning**, reducing delivery delays and **accelerating customer onboarding**.
- Redesigned legacy licensing system by leading migration to a modern, automated model, eliminating 2+ years of recurring issues and saving 30+ hours/week across engineering.
 - o **Engineered automation pipelines** to handle **billing errors** and license recovery, **cutting operational costs by 25%** and reducing daily support escalations by over 99%.
- Individually designed and deployed a secure, full-scale internal web application (Python, Django) to help 7+ support
 engineers handle high-priority incidents faster on a dedicated LINUX server.
 - o **Exposed the app as a service** using **Nginx** and **Gunicorn**, integrating **authentication** and **automated restart daemons** to maintain high uptime and SLA adherence.
- Integrated OIDC-based SSO to eliminate redundant dual logins across internal/vendor portals, reducing login time by 1+ minute and user steps by 75%.

Software Architect Intern - Los Angeles, CA, USA

Jun 2022-Jun 2023

- Supported system architecture discussions by addressing integration challenges and providing technical inputs on vendor
 APIs and deployment pipelines.
- Developed **REST APIs** for integrating and automating vendor products and services using **MongoDB**, **Java 11**, **and Spring Boot framework**.

Software Development Engineer - Bangalore, KA, India

Jul 2019-May 2021

- Drove monolith-to-microservices transformation by engineering new APIs from the ground up, enabling modular deployments, horizontal scaling, and accelerated release cycles.
- Built REST APIs for 50+ federal and enterprise telecom products using Java 11 and Spring Boot; implemented secure data encryption and managed seamless DB integrations via Oracle SQL Developer.
- Designed and deployed file transfer APIs and infrastructure from scratch, integrating NAS storage, Oracle database, and Kubernetes persistent volumes within a robust CI/CD pipeline.

INDIAN INSTITUTE OF SCIENCE (IISc)

Bengaluru, KA, India

Summer Intern Jun 2018-Aug 2018

Developed a real-time heart rate monitoring system with a webcam in MATLAB, analyzing 300+ image frames to identify and calculate the intensity of relevant pixels, hence reducing dependence on intrusive ECG.

ACADEMIC PROJECTS

Smart Glove for the Visually Impaired

Aug 2018-Apr 2019

- Led a 4-member team to build a smart glove that enabled object navigation for the visually impaired in indoor
 environments. Tech Stack and Hardware: Raspberry PI with Python, Intel Movidius NCS 2, vibrational motors and camera,
 incorporating NLP speech recognition and TensorFlow.
- IEEE Publication URL: https://ieeexplore.ieee.org/document/8698009

EDUCATION

University of Southern California, Viterbi School of Engineering Degree: Master of Science, Electrical Engineering

Los Angeles, CA, USA Aug 2021-May 2023