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Top Skills

Vapi
Supabase
ShadCN UI

Languages

English (Native or Bilingual)
Marathi (Native or Bilingual)
Hindi (Native or Bilingual)
Spanish (Elementary)

Certifications

Cisco Networking Basics
Specialization
KPIT Sparkle 2019 : Centennial
Brigade Certificate of Merit
Google IT Automation with Python
Specialization
C++ Nanodegree Program

Mukul C. Mahadik

1x Hackathon Winner | Seeking SDE Full-time Roles for New Grad
2024 | Full-stack Developer | Software Engineer | MS CS Graduate
@ ASU

San Francisco, California, United States

Summary

- Currently based in San Francisco, actively attending tech talks, meetups, networking events, participating in hackathons and meeting with different startup founders.
- Open to connecting with founders and actively seeking job opportunities to contribute to.

About Me:

- Recent Computer Science Master's graduate with a passion for backend applications and a keen interest in CI/CD, DevOps, Cloud technologies, and Full-stack development, including integrating Large Language Models (LLMs) for Generative AI applications.
- Proficient in Python, TypeScript, C++, Java, and adept at leveraging a wide array of frameworks and tools to drive innovative solutions.
- Experienced in scaling systems, optimizing performance, and automating deployment processes.

Technical Skills:

- From Java, Python, C++, TypeScript to Flask and Spring Boot, I thrive in diverse tech environments.
- Proficient in handling databases like Oracle SQL and MongoDB, and adept at architecting REST APIs, Microservices.
- Comfortable navigating Cloud platforms such as AWS and Kubernetes, and well-versed in developer tools like Git, Docker.
- Exploring the world of full-stack development and integrating RAG chain LLMs for building Generative AI applications.

Beliefs:

- I'm driven by a curiosity to understand not only "how" but "why" things work.
- I embrace the challenge of the unknown and the unknowable and learning to prioritize efficiency and task completion over perfection.

- I value accountability and ownership in both professional work experience and personal life, taking responsibility for my actions and striving to deliver high-quality work while continuously learning and improving.

Experience

National Renewable Energy Laboratory

Software Engineer Intern - Python Developer, DevOps Engineer

August 2023 - Present (1 year 2 months)

Colorado, United States

- Refined data processing in model build and analysis pipeline in a distributed system for transforming raw data to inferred values followed by end-to-end manual and automated unit testing and integration tests.
- Did scaling and performance optimization to address scalability requirements by optimizing time complexity.
- Diagnosed and remedied model build pipeline failures in staging and production environments using Cloudwatch logs.
- Automated deployment DevOps process by restructuring CI/CD workflows using GitHub Actions.

Ira A. Fulton Schools of Engineering at Arizona State University

Graduate Services Assistant

January 2023 - May 2023 (5 months)

Tempe, Arizona, United States

- Grader for CSE 536 Advanced Operating Systems course (Spring 2023) under School of Computing and Augmented Intelligence (SCAI).
- Activities: Preparing and reviewing coursework, Assisting students during office hours, Grading assignments.

ORACLE FINANCIAL SERVICES SOFTWARE LIMITED

Software Engineer - PL/SQL Developer

July 2021 - May 2022 (11 months)

Bengaluru, Karnataka, India

- Implemented OFSAA LLFP fintech solutions in SIT, UAT and provided post-implementation support in Production environments for 2 international financial banking firms.
- Engineered 6 GUI based workflow runs for ETL pipelines with numerous tasks and integrated them with backend scripts to process data from Pre-staging to end-user report generation stage.

- Enhanced UI for Individual Assessment (IA) module based on XML Forms Framework by customizing 4 UI Forms and 8 PL/SQL scripts to process over 300k customer records by proposing to debug existing legacy code.
- Generated PL/SQL scripts for data manipulation and validation to automate manual tasks for filtering source data that helped reduce execution times by 20% while generating end-user reports containing customer data for over 6 months.
- Documented technical designs and deployed code packages across environments via WinSCP/PuTTY client-server apps.

Inter-university accelerator centre

Embedded C++ Developer

May 2020 - August 2020 (4 months)

New Delhi, Delhi, India

- Worked under Dr. Joby Antony (MS Kent State University, Ohio, USA), Formerly Visiting Scientist, CERN, Geneva.
- Designed software modules for ARM Cortex-M3 embedded server sensor device to measure subzero temperatures.
- Troubleshooted bugs and optimized the system to handle real-time sensor data via RPC transfer protocols.

College of Engineering Pune

Python Developer

May 2019 - July 2019 (3 months)

Pune, Maharashtra, India

- Worked under the guidance of Ms. Vanita Agarwal, Assistant Professor, Department of Electronics & Telecommunication Engineering, College of Engineering, Pune.
- Successfully modeled discrete mathematical Rough Set Theory concepts for Sensor Data Mining using Python.
- Designed custom-built library to process 65,536 objects in 2 minutes with accuracy of 95% using linear regression.

Education

Arizona State University

Master of Science - MS, Computer Science · (August 2022 - May 2024)

National Institute of Technology Hamirpur

Bachelor of Technology - BTech, Electronics and Communications
Engineering · (July 2017 - June 2021)

The Bishops School, Camp
Class XI-XII · (2015 - 2017)

The Bishops Co-Ed School, Kalyaninagar
Class UKG-X · (2004 - 2015)