

HARIHAR OMKARACHARI SUPRITH KUMAR

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EDUCATION

University of Texas at Arlington

Master of Science in Computer Science, Majors in Intelligent Systems and Databases. [GPA : 3.5]

Arlington, TX

Aug. 2022 – May 2024

Visvesvaraya Technological University

Bachelor of Engineering in Computer Science and Engineering

India

Aug. 2012 – Jun. 2016

EXPERIENCE

Senior Software Engineer | Cisco Systems, Inc.

Aug. 2021 – Aug. 2022

Project : Hosted Collaboration Solution (Migration)

Bengaluru, India

- Crafted efficient **RESTful APIs** with **Python** and **Django**, facilitating the migration of more than **15 million phones** from customer on-premise to **Cisco Unified Communications Manager Cloud**, enhancing service reliability.
- Spearheaded a **POC** to optimize **AWS cloud infrastructure** for UC app migration, leveraging **EC2, S3, Lambda, RDS, and CloudWatch logs**; boosted system scalability and performance, resulting in a **50% increase** in load handling capacity.
- Implemented and managed **Kubernetes** environments to deploy and scale Cisco UC applications, leveraging **DevOps** tools such as **Jenkins, Docker, Ansible**, and **Terraform** to optimize **deployment processes** and enhance infrastructure automation.
- Played a key role in **developing and executing cloud migration strategies** for the UC application, achieving seamless transitions with **zero data loss** and **minimal downtime** through **Prime Collaboration Deployment, Lift & Shift**, and **DRS Backup & Restore**.

Software Engineer | (Varite Inc.) Cisco Systems, Inc.

Jan. 2020 – Aug. 2021

Project : Hosted Collaboration Solution

Bengaluru, India

- Built **microservices** for **Cisco UC applications** using **Java** and **Spring Boot**, improving call manager **serviceability** by **30%** and cloud integration. Implemented **unit tests** with **JUnit** and **Mockito**, managing builds and dependencies with **Maven**.
- Created the **OneClick dashboard** portal for real-time **monitoring** and **debugging** of **development, testing, and production suites**, enhancing user experience by **25%** and providing a comprehensive view, facilitating efficient issue resolution.
- Engineered **Python scripts** to **automate call flows** in Cisco UC Application, **reducing manual effort** by **40%**. Automated the transfer, processing of migration files, and streamlined installations with **Red Hat Package Manager**, boosting operational efficiency.
- Conducted **performance testing** for the **UC application** at the end of each sprint, **identifying and addressing bottlenecks**, and **generating detailed reports** that informed a **30% improvement** in application **response times** and **stability across releases**.

Software Engineer | Tech Mahindra

Feb. 2017 – Dec. 2019

Project : British Telecom OSS

Bengaluru, India

- Developed **20+ features** for **FTTP and FTTC** networks using **PL/SQL, Java**, and **XML** based on **system design** requirements. Collaborated with **Design and Testing** teams for effective **bug resolution** and performed **SonarQube** analysis for code quality.
- Leveraged **Oracle Data Integrator** and **Apache Sqoop** to transfer and validate **5 TB** of data from **SQL Developer** to **HDFS**, reducing retrieval times by **40%**, ensuring data integrity, and enhancing management with **HQL and Hive**.
- Engaged in **full-stack development** of a **React-based Cramer OSS** with a **Java backend**, leveraging **RESTful APIs** and **Hibernate**, reducing network errors, **enhancing network architecture insights**, and validating functionality through **end-to-end testing**.
- **Led** automated **OSS telecom network** creation, **reducing manual effort** and enhancing network design performance by **50%**, while integrating **CI/CD** pipelines with **Jenkins** and **Git**, increasing deployment frequency by **60%** and fostering a **DevOps** culture.

Project : Mahindra IntelliPilot (Research and Development)

- Designed and maintained **real-time obstacle detection algorithms** using **Python**, **sensor fusion** (LiDAR, RADAR, Camera), **OpenCV**, and **React** for web app visualizations, achieving **70% success** in accurate **obstacle and lane detection**.

PROJECTS

PatientVerify | HTML, CSS, JS, AWS:(S3, Rekognition, DDB, Lambda, API, IAM)

Mar. 2024 – Apr. 2024

- Built a **scalable healthcare** patient management app using **AWS** with **facial recognition**, reducing identification errors by **20%** and administrative burden, providing doctors with easy access to patient medical history for improved care.

ResiComm | HTML, CSS, Javascript, Laravel, PHP, NodeJs, React, MySQL, XAMPP

Sep. 2023 – Dec. 2023

- Created an **academic web app** for a **housing community** with house booking, visitor passes, parking management, chat, and announcements, streamlining operations and enhancing **resident engagement** by **40%**.

PARK-IT | ReactJs, Firebase, smtp lib, GCP: Spanner, Video Intelligence API, Bucket

Jan. 2023 – Apr. 2023

- Designed a **parking management system** integrated with campus maps and sensors, enabling users to find, reserve, and navigate to available parking slots, reducing congestion and **parking time** by **50%**.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, C#, HTML, CSS, PL/SQL

Frameworks: React, Node.js, Django, Flask, pytest, TestNg, Mockito, Hibernate, Spring Boot, Maven, JUnit, log4j, JSP

Database / Cloud Technologies: MySQL, PostgreSQL, MongoDB, Hadoop, Hive, HDFS, AWS, Google Cloud Platform, Microsoft Azure

Tools: GitHub, Kubernetes, Docker, DBEaver, GitLab, BitBucket, Jenkins, Eclipse, Cramer, Rally, ServiceNow, Jira, HPALM, Truevision, Putty, Postman, Kafka, JMeter, Terraform, Sqoop, SQL Developer, Oracle Data Integrator

Expertise: Full-stack web application development, Back-End Development, Mobile application development, Design and Analysis of Algorithms, Data Structures, Computer Architecture, System Design, Machine Learning, Artificial Intelligence, Distributed Systems