

Mahesh Maddhuru

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EDUCATION

VIRGINIA TECH

MENG IN COMPUTER SCIENCE

May 2024 | Blacksburg, VA

BMS

COLLEGE OF ENGINEERING

BE IN COMPUTER SCIENCE

GPA: 8.87 / 10

Grad. May 2019 | Bangalore, IN

VIKAAS

HIGH SCHOOL

Grade: 95.16%

Grad. May 2015 | Mangalore, IN

COURSEWORK

GRADUATE

Networks and Protocols

Network Security

Information Security

Blockchain

Machine Learning

AI Tools Software Development

UNDERGRADUATE

Analysis and design of Algorithms

Operating Systems

Computer Networks

DBMS

Cryptography and Network Security

Web Development

Data Science

Discrete Mathematics & Linear Algebra

SKILLS

LANGUAGES

Java • JavaScript • Python • C++

FRAMEWORKS

Dropwizard • Dagger 2.0 • SpringBoot •

Terraform • Express JS • Android •

Hibernate • JUnit • Mockito • Flask •

Selenium

DATABASES

Oracle DB • MongoDB • MySQL

SOFTWARE TOOLS

Oracle Cloud • CI/CD tools • DevOps •

Docker • GIT • Maven • Gradle

WEB DEVELOPMENT

VueJS • AngularJS • JQuery • Bootstrap

• D3.js

EXPERIENCE

ORACLE CLOUD INFRASTRUCTURE (OCI) | MEMBER OF TECHNICAL STAFF IC2 (SDE-2)

October 2021 – December 2022 | Bangalore, IN

- Led and developed entire infrastructure for an emergent system to apply **quick patches to live hypervisors**.
- Successfully navigated the project through the **CSSAP security review process**.
- Redesigned and developed modules for Yum management, linux system file modification, custom package installation, and validations.
- These Modules **optimized the 'image build pipeline'**, reducing build time by approximately 25% and enhancing its stability.
- Developed a versatile Maven plugin for parallel **Docker image retrieval** on all build hosts.
- As the **Release coordinator**, deployed the updated Hypervisor base image on the Virtual Machine Infrastructure fleet.
- As an **On-Call engineer**, successfully resolved a multitude of customer issues.

AKAMAI | SOFTWARE ENGINEER II + SOFTWARE ENGINEER + INTERN

January 2019 – September 2021 | Bangalore, IN

- Designed and developed the **"Activation" algorithm**, reducing product operations team's efforts by 50% through complex business logic computation (**calculating the product's pricing** based on region, rate card, partner discount, etc.) and **automated product launch lifecycle** with smart retry mechanism.
- **Developed Authorization layer** from the ground up with granular data access control.
- Developed a **lock mechanism** to prevent product data changes in a non-draft state during configuration workflow.
- Devised and **optimized partner open APIs** for fast reads (< 1.5 seconds response time).
- Improved response times for client APIs by implementing **inter-service calls and data caching**.
- Facilitated integration of multiple client systems with our services.
- Built many reusable **UI components on AngularJS** for configuring product metadata.

LEANOVATE SOLUTIONS | FULLSTACK ENGINEER INTERN

June 2018 - November 2018 | Bangalore, IN

- Assisted in designing a **MongoDB** database for a building management system.
- Developed **REST APIs in ExpressJS** to manage meeting room booking.
- Devised automation tests in Python using **Selenium**.
- Generated PDF reports for booking statistics on a **Flask microservice**.

PROJECTS

POWERCHAIN | NODEJS, DATSWARM DHT |

A portable **blockchain system** that uses a custom protocol to enable **internetwork transactions** without middlemen and uses **custom packets** to reduce network congestion in blockchain-based systems.

BMS.NET | ANDROID, FIREBASE, GOOGLE MAP API

An Android social media app that lists and **notifies the university's circulars**, lists upcoming live events, **pins live events** like workshops, etc. on the university map, and features student community **group live chat**.