

# 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

## PUBLICATION

### PATENT

Intellectual Property India

"System and method for implementation of inter-network transaction process in blockchain distribution networks" | 

## 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**.