

Mahesh Maddhuru



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EDUCATION

VIRGINIA TECH

MENG IN COMPUTER SCIENCE

GPA: 3.95 / 4.0

December 2023 | Blacksburg, VA

BMS

COLLEGE OF ENGINEERING

BE IN COMPUTER SCIENCE

GPA: 8.87 / 10

Grad. May 2019 | Bangalore, IN

RESEARCH ASSISTANT

ROVISTA

SpringBoot | VueJS | DynamoDB

- **Single-handedly** spearheaded the RoVista dashboard for **Prof. Tijay Chung**.
- Automated deployment on **EC2** with **Docker** and **GitLab CI/CD**
- Added **Caching**, created numerous **Analytic graphs**, opened APIs for public use.
- Set up an **automated data refresh pipeline**.

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 • DynamoDB

SOFTWARE TOOLS

Oracle Cloud • AWS • CI/CD tools • DevOps • Docker • GIT • Maven • Gradle

WEB DEVELOPMENT

VueJS • AngularJS • JQuery • Bootstrap

EXPERIENCE

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

October 2021 – December 2022 | Bangalore, IN

- **Led** a project to speed up **live hypervisor patching**, reducing patching time to **less than 15 minutes**.
- Successfully guided the project through the **CSSAP security review process**.
- Revamped and created modules for Yum management, Linux system file adjustments, custom package installation, and validations, which optimized the **'image build pipeline'** and reduced build time by approximately 20% while enhancing its stability.
- Developed a versatile Maven plugin for parallel **Docker image retrieval** on all build hosts, thus reducing the test suit execution time by 20%.
- As the **Release coordinator**, deployed the updated Hypervisor base image on the Virtual Machine Infrastructure fleet on **various OCI regions**.
- 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**, which **automated the product launch lifecycle** with a **smart retry mechanism** and reduced the product operations team's efforts by 50%.
- **Developed Authorization layer** from the ground up with granular data access control.
- Developed a robust **lock mechanism** to prevent product data changes during configuration workflow.
- Implemented **inter-service communication** and **data caching** for client and partner APIs to ensure fast response times (< 1 second).
- **Streamlined integration processes** to facilitate seamless connectivity between our services and multiple client systems.
- 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** geographically like workshops, etc. on the university map, and features student community **group live chat**.