Mahesh Maddhuru

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EDUCATION

VIRGINIA TECH
MEng in Computer Science
GPA: 3.85 / 4.0
May 2024 | Blacksburg, VA

BMS
College of Engineering
BE in Computer Science
GPA: 8.87 / 10
Grad. May 2019 | Bangalore, IN

RESEARCH ASSISTANT

ROVISTA 🔗
SpringBoot | Picocli | VueJS |
DynamoDB | Nginx | Docker
• **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 • Kubernetes

DATABASES
Oracle DB • MongoDB • MySQL • DynamoDB

SOFTWARE TOOLS
Oracle Cloud • AWS • CI/CD tools • DevOps • Docker • GIT • Elastic Search

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**.