Mahesh Maddhuru

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EDUCATION

VIRGINIA TECH
MEng in Computer Science
December 2023 | 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
Information Storage and Retrieval
Web Development
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 • 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 aimed at applying rapid patches to live hypervisors and developed its entire infrastructure, effectively bringing down the patching time to under 15 minutes.
- 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 20% and 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%. It efficiently handled complex business logic, including the calculation of product pricing based on factors like region, rate card, and partner discount.
- Developed Authorization layer from the ground up with granular data access control.
- Developed a robust lock mechanism to prevent product data changes in a non-draft state 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 like workshops, etc. on the university map, and features student community group live chat.