

MAHENDRA THANNIRU

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Accomplished Software Engineer with 5+ years of experience in designing, developing, and deploying secure, scalable, and high-performance distributed systems. Proficient in cloud platforms (AWS, VMware), containerization, and automation. Proven track record of optimizing application performance, reducing infrastructure costs, and enhancing operational reliability.

EXPERIENCE

Amazon

Aug 2022 – Present

Software Engineer – Amazon Pay

India

- Revamped the payment tokenization service, reducing latency by 50ms and propelling a 10% surge in transaction efficiency.
- Overhauled double transactions detection and automated user refunds, slashing manual intervention by 30% and elevating customer satisfaction.
- Spearheaded the re-architecture of the recurring billing and subscription service for Amazon Pay merchants, diminishing transaction failures by 20% and fortifying auto-scaling capabilities for enhanced reliability and performance.
- Optimized application performance and compute resources, leading to a 30% reduction in infrastructure costs and reduced business cost to serve by 15% for customers.
- Authored comprehensive runbooks, mitigating potential issues and achieving a 15% reduction in system downtime while augmenting operational reliability.
- Implemented comprehensive automation test coverage, decreasing runtime errors by 30% and amplifying system reliability by 25%.

VMware

Feb 2021 – Aug 2022

Software Engineer – End User Computing

India

- Optimized the scalability of the Virtual Desktop Infrastructure (VDI) solution by 10% and seamlessly orchestrated its deployment across multiple cloud platforms.
- Integrated comprehensive test coverage for the entire codebase, resulting in a 30% reduction in bug reports and accelerating the development cycle by 15%.
- Engineered an internal tool to automate builds and detect typo squatting within dependent libraries, significantly boosting development efficiency and curtailing potential security risks by 25%..

Opentext

May 2019 – Feb 2021

Software Engineer – iHub

India

- Designed and constructed a diverse array of frontend chart components for the information hub, offering customers a 20% increase in flexibility for data visualization options and choices.
- Deployed containerization for multiple frontend services, improving latency by 10% and enhancing the user experience.

PROJECTS

Dependency Confusion | Golang, docker, linux

- Developed and deployed an advanced tool for identifying and mitigating security risks in dependency configurations, resulting in a 30% decrease in namespace-related vulnerabilities.
- The tool thoroughly scans private package names referenced in Python (pypi), JavaScript (npm), PHP (composer), and Maven (pom.xml) files, fortifying the security of software projects.

NightWolf | AWS, IAM, docker, python

- Engineered "NightWolf," a robust rule-based engine responsible for identifying misconfigurations and security anti-patterns in AWS accounts, ensuring compliance and best practices.

PROFESSIONAL ACCOMPLISHMENTS

- **Certifications:** AWS Developer Associate, OSCP (Security), CKAD, HCNA
- Awarded CVE-2022-1553 for identifying an authorization bypass vulnerability that enabled leaking sensitive information in a CMS open-source software.

EDUCATION

B V Raju Institute of Technology

Bachelor of Technology in Computer Science

May 2020

India