

MAHENDRA THANNIRU

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Experienced Software Engineer with expertise in distributed systems, application, and infrastructure development. Successfully led multiple projects in building secure, scalable, reliable services deployed globally.

EXPERIENCE

Amazon

Aug 2022 – Present

Software Engineer – Amazon Pay

India

- Enhanced the payment tokenization service, leading to a 10% increase in transaction efficiency and reduced latency by 50ms.
- Improved existing double transactions detection and automated user refunds, reducing manual intervention by 40% and enhancing customer satisfaction.
- Re-architected the recurring billing and subscription service for Amazon Pay merchants, reducing transaction failures by 20% and improving 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 to mitigate potential issues, resulting in a 15% reduction in system downtime and enhanced operational reliability.
- Enhanced automation test coverage, reducing runtime errors by 30% and increasing system reliability by 25%.

VMware

Feb 2021 – Aug 2022

Software Engineer – End User Computing

India

- Enhanced scalability of Virtual Desktop Infrastructure (VDI) solution and orchestrated its seamless deployment across multiple cloud platforms, resulting in a 40% reduction in infrastructure costs and enhanced flexibility for users across diverse environments.
- Implemented comprehensive test coverage for the entire codebase, resulting in a 30% reduction in bug reports and accelerating the development cycle by 20%.
- Engineered an internal tool to automate builds and detect typo squatting within dependent libraries, significantly enhancing development efficiency and reducing potential security risks by 25%.

Opentext

May 2019 – Feb 2021

Software Engineer – iHub

India

- Designed and constructed a variety of frontend chart components for the information hub, offering customers increased flexibility in data visualization options and expanding their choices by 50%.
- Implemented containerization for multiple frontend services, resulting in a 40% reduction in operational costs and maintenance overhead.

PROJECTS

Dependency Confusion | Golang, docker, linux

- Developed "Dependency Confusion," a comprehensive tool designed to identify and mitigate security risks associated with lingering free namespaces in dependency configurations.
- This tool thoroughly checks private package names referenced in Python (pypi) requirements.txt, JavaScript (npm) package.json, PHP (composer) composer.json, and Maven (pom.xml) files. By ensuring these namespaces are not exploited, "Dependency Confusion" significantly enhances the security of software projects.

NightWolf | AWS, IAM, docker, python

- Developed "Nightwolf," a robust rule-based engine designed to identify misconfigurations and security anti-patterns in AWS accounts.

PROFESSIONAL ACCOMPLISHMENTS

- Certifications:** AWS Developer associate, OSCP, CKAD, HCNA
- Awarded CVE-2022-1553 for identifying Authorization bypass in one CMS OSS.

EDUCATION

B V Raju Institute of Technology

May 2020

Bachelor of Technology in Computer Science

India