

# MAHENDRA THANNIRU

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- Driving UPI payment service improvements for 100M+ monthly active users at Amazon Pay.
- Security champion, leading org-wide training for 200+ engineers to strengthen secure coding practices and enhance platform resilience against threats.
- Enhanced team efficiency by automating the remediation of common security risks, reducing manual effort by 30%, and speeding up incident resolution.

## EXPERIENCE

### Amazon

Aug 2022 – Present

Software Engineer – Amazon Pay

India

- Developed and enhanced backend services to support over 100 million monthly active users, ensuring high uptime through improved reliability and scalability.
- Integrated with over 5 payment partners, enabling secure and seamless transactions while reducing transaction failure rates by 20% through refined API performance and error handling.
- Reduced server costs by 30% by optimizing resource usage, streamlining processes, and minimizing reliance on high-cost infrastructure.
- Improved team efficiency by 50% by developing an auto-remediation solution, reducing manual effort for recurring issues and accelerating incident resolution.
- Led the organization's Security Champion Program, training developers on identifying and mitigating common application security vulnerabilities.

**Tech Stack:** Java, Python, Spring, JAX-RS, AWS (EC2, S3, Lambda, SNS), DynamoDB (NoSQL), Redis

### VMware

Feb 2021 – Aug 2022

Software Engineer – Tanzu Platform

India

- Streamlined Kubernetes fleet management by refining scheduling algorithms, resulting in a 30% improvement in resource utilization and a 20% reduction in workload deployment time.
- Cut build times by 20% by introducing dependency caching, enhancing development cycles and CI/CD pipeline efficiency.
- Increased test coverage by 40% and enforced linting best practices, improving code quality and reducing post-deployment issues. **Tech Stack:** Java, Golang, Spring, AWS, Azure, K8s

### Opentext

May 2019 – Feb 2021

Software Engineer – iHub

India

- Developed versatile frontend chart components to enhance data visualization flexibility, providing customers with 20% more options for customized insights and display configurations.
- Enhanced API performance by adopting asynchronous processing and containerized applications, cutting deployment time by 30% and improving system responsiveness. **Tech Stack:** Java, JS, Spring, AWS

## PROJECTS

### Endpoint Enumeration | AWS, IAM, docker, python

- Endpoint Enumeration solution enables organizations to establish a closed-loop system to understand their external API attack surface while automatically detecting and addressing new API endpoints deployed in production without prior security review.

### Dependency Confusion | Golang, docker, linux

- Engineered a robust security tool to detect and eliminate security vulnerabilities in lingering free namespaces across Python, JavaScript, PHP, and Maven, enhancing system integrity and reducing potential breaches by 40%

## 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 an open-source CMS software.
- Contributed to FOSSASIA's Meilix project, enhancing Linux OS customization features and fixing critical bugs to improve user experience and accessibility for the open-source community.

## EDUCATION

### B V Raju Institute of Technology

Bachelor of Technology in Computer Science

May 2020

India