

MAHENDRA THANNIRU

+919912933367 mahendra.thanniru@outlook.com linkedin.com/in/mah1ndra github.com/mah1ndra

- Driving UPI payments, KYC service improvements for 100M+ monthly active users at Amazon Pay.
- Security champion, enabling 200+ engineers with training on common vulnerabilities and secure coding to improve overall product security.

EXPERIENCE

Amazon

Aug 2022 – Present

Software Engineer – Amazon Pay

Java, Python, Spring, REST, GraphQL, Pipeline, AWS CDK, ECS, DynamoDB, SQS

- Led the redesign of the UPI payment flow, reducing transaction latency by 30% and improving success rates by 12%, directly enhancing the checkout experience for over 10 million users.
- Built a fault-tolerant retry mechanism for UPI payments, reducing payment failures during bank downtimes by 25%, resulting in higher transaction reliability and increased customer trust.
- Developed and scaled the KYC system to support real-time Aadhaar-based identity verification, cutting onboarding time from 24 hours to under 5 minutes and boosting daily verified user sign-ups by 40%.
- Implemented an automated compliance audit framework for the KYC system, reducing manual review effort by 60% and ensuring adherence to RBI regulations with zero non-compliance incidents in bi-annual audits.

VMware

Feb 2021 – Aug 2022

Software Engineer – Tanzu

Java, Golang, Spring, REST, Jenkins, AWS, Azure, K8s, Rabbitmq

- Optimized cluster health monitoring services by refactoring data collection pipelines, resulting in a 40% improvement in alert accuracy and reducing false positives by 70%, which improved operational efficiency for SRE teams.
- Led the development of multi-cloud support for Tanzu Application Platform, allowing deployments on AWS, Azure, and vSphere, increasing product adoption by 25% among hybrid cloud customers within six months of launch.
- Designed and implemented RBAC enhancements for namespace-level access control, improving security posture and enabling compliance for regulated industries such as finance and healthcare, leading to successful onboarding of 10+ new enterprise clients.

Opentext

May 2019 – Feb 2021

Software Engineer – iHub

Java, JS, REST, Spring, AWS

- Developed 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.

PROJECTS

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

- The Endpoint Enumeration solution helps organizations track their external API attack surface by automatically detecting and alerting them about new API endpoints deployed in production without a security review.

Dependency Confusion | Golang, docker, linux

- Deployed a script to automate analysis of 50+ dependencies daily, identifying dependency confusion vulnerabilities by scanning package managers like PyPI and Maven; enhanced tool adoption across teams.

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, a customizable Linux build for Internet Kiosks, by adding features for brand theming and app customization.

EDUCATION

B V Raju Institute of Technology

Bachelor of Technology in Computer Science

May 2020

India