

# MAHENDRA THANNIRU

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- Built multi-agent workflows using LangGraph to autonomously generate production-ready code from technical specifications.
- Drove UPI payments and KYC service improvements for 100M+ monthly active users at Amazon Pay.
- Championed security, enabling 200+ engineers through training on common vulnerabilities and secure coding to ship safer software.

## EXPERIENCE

### Amazon

Aug 2022 – Present

Software Engineer – Amazon Pay

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

- Redesigned the UPI payment flow, cutting transaction latency by 30% and improving success rates by 12%, directly enhancing checkout for 10M+ monthly active users.
- Architected and delivered the UPI “Circle” feature end-to-end, enabling primary account holders to authorize secondary trusted users for payments with configurable spending limits, transaction monitoring, and revocation controls. driving higher adoption among family and shared-account users.
- Owned the instant eKYC solution, enabling real-time Aadhaar-based identity verification that reduced onboarding time from 1 hour to under 15 minutes and increased daily verified user sign-ups by 40%.
- Mentored a junior engineer on delivering Infra migration projects and guided an intern to deliver an AI-powered chatbot that automated answers to recurring client and support queries, improving productivity for support engineers.
- Recognized with multiple accolades at Amazon for impactful contributions.

### VMware

Feb 2021 – Aug 2022

Software Engineer – Tanzu

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

- Led multi-cloud enablement for Tanzu Application Platform across AWS, Azure, and vSphere, driving a 25% increase in adoption among hybrid cloud customers.
- Delivered RBAC enhancements for namespace-level access control, strengthening security and enabling compliance for regulated industries, supporting the onboarding of 10+ enterprise clients.
- Enhanced product stability by expanding automated test coverage by 35% and refactoring legacy modules, reducing production incidents by 20% and accelerating release confidence for enterprise customers.
- Recognized with “Elevate – At Our Best” award for delivering impactful projects that improved platform security and adoption.

### 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