

# MAHENDRA THANNIRU

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- 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.
- Boosted revenue by optimizing payment flows and reducing transaction failures across key banking partners.

## EXPERIENCE

### Amazon

Aug 2022 – Present

Software Engineer – Amazon Pay

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

- Reduced UPI transaction failure rates by 35% by implementing intelligent fallback routing and real-time bank health monitoring, directly improving customer retention and checkout success rates.
- Spearheaded the end-to-end design and development of eKYC, an instant KYC feature leveraging OTP-based customer verification to streamline and ensure compliant onboarding for Amazon Pay wallet users.
- Drove an operational excellence initiative to mitigate recurring internal risks in the UPI system by migrating services to a compliant deployment pipeline and adopting secure CDKs, achieving a 30% reduction in manual effort.
- Implemented the Security Champion Program to equip developers with secure coding practices, achieving a 60% reduction in XSS and IDOR vulnerabilities.

### VMware

Feb 2021 – Aug 2022

Software Engineer – Horizon Enterprise

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

- Implemented cross-application authorization in Horizon using OAuth2, allowing different services to securely integrate and share user authentication.
- 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.

### 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