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 through training on common vulnerabilities and secure coding, helping teams ship secure software to customers.

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 payment success rates by 12%, directly enhancing the checkout experience for over 10MM 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 1 hours to under 15 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   May 2020
Bachelor of Technology in Computer Science   *India*