Mahendra Thanniru

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- Built **multi-agent AI** 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   *Typescript, React, Node.js, Java, Python, Spring, REST, GraphQL, CI/CD, AWS, Kafka*

- **Optimized UPI payment flow**, reducing transaction latency by **30%** and increasing success rates by **12%**, improving checkout performance for **10M+ monthly active users**.
- **Owned end-to-end design and delivery of the "UPI Circle"** feature, enabling account holders to delegate payment access with configurable limits and real-time monitoring, driving higher adoption among shared-account users.
- Built and deployed **instant eKYC verification**, reducing user onboarding time from **1 hour to under 15 minutes** and boosting verified sign-ups by **40%**.
- **Automated support workflows** by mentoring an intern to build an **AI-powered chatbot**, cutting repetitive queries and increasing productivity for support engineers.
- **Mentored engineers** through infrastructure migration projects, improving deployment reliability and team delivery cadence.
- **Received multiple Amazon awards** recognizing innovation and measurable customer impact.

VMware   Feb 2021 – Aug 2022
Software Engineer – Tanzu   *Typescript, React, Node.js, Jest, Mocha, Java, Go, Spring, CI/CD, AWS, Sentry,Kubernetes, Kafka*

- **Led multi-cloud enablement** for Tanzu Application Platform across AWS, Azure, and vSphere, driving **25% adoption growth** among hybrid-cloud customers.
- **Enhanced security** by delivering RBAC improvements for namespace-level access, enabling compliance for **10+ enterprise clients** in regulated sectors.
- **Increased product reliability** by expanding automated test coverage by **35%**, cutting production incidents by **20%**, and improving release confidence.
- **Recognized with VMware's "Elevate – At Our Best"** award for impactful security and adoption improvements.

Opentext   May 2019 – Feb 2021
Software Engineer – iHub   *Typescript, React, Nodejs, Java, Junit, GraphQL, AWS*

- **Developed reusable charting components**, expanding data visualization flexibility and providing **20% more customization** options for enterprise customers.
- **Enhanced API throughput** by introducing asynchronous processing and containerized deployments, cutting release times by **30%** and improving response latency.
- **Partnered with cross-functional teams** to streamline deployments, accelerating delivery timelines across multiple client projects.

PROJECTS

Endpoint Enumeration | *Typescript, Python, CI/CD, AWS, docker, Kafka*

- **Developed an automated discovery system** that detects and reports new production API endpoints lacking security review, enabling proactive attack surface monitoring.

Dependency Confusion | *Go lang, docker, AWS, linux*

- **Built a scanning tool** that analyzed **50+ dependencies daily** to detect potential dependency confusion vulnerabilities in PyPI and Maven, helping teams prevent supply chain risks.

PROFESSIONAL ACCOMPLISHMENTS

- **Certifications:**   AWS Developer Associate, OSCP (Security), CKAD, HCNA(Networking).
- Discovered **CVE-2022-1553**, an authorization bypass vulnerability in open-source CMS software, acknowledged with official **CVE credit**.
- **Contributed to FOSSASIA's Meilix project**, adding modular branding and app customization capabilities for Linux-based kiosk systems.

EDUCATION

B V Raju Institute of Technology   May 2020
Bachelor of Technology in Computer Science   *India*