MAHENDRA THANNIRU

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- Driving UPI payment service improvements for 100M+ monthly active users at Amazon Pay.

- Security champion, leading org-wide training for 200+ engineers to strengthen secure coding practices and enhance platform resilience against threats.

- Boosted team efficiency with an auto-remediation solution, cutting incident response time by 60% and reducing manual tasks.

EXPERIENCE

Amazon   **Aug 2022 – Present**
Software Engineer – Amazon Pay   *India*
- Developed and optimized backend services, supporting over 100M+ monthly active users and achieving 99.99% uptime by enhancing service reliability and scalability.
- Integrated with 5+ payment partners, enabling seamless, secure transactions and reducing transaction failure rates by 20% through enhanced API performance and error handling.
- Reduced server costs by 30% by optimizing infrastructure resource usage, streamlining processes, and lowering dependency on high-cost resources.
- Increased team efficiency by 60% through an auto-remediation solution, minimizing manual effort for recurring issues and accelerating incident resolution times.
- Led the org's security champion program, proactively addressing common vulnerabilities and achieving 40% fewer security incidents by fostering secure coding practices and implementing early detection strategies.

VMware   **Feb 2021 – Aug 2022**
Software Engineer – Tanzu Platform   *India*
- Enhanced Kubernetes fleet management service concurrency through advanced scheduling algorithms resulted in 30% increased resource utilization and 20% faster workload deployment.
- Reduced build time by 20% with the implementation of dependency caching, accelerating development cycles and improving CI/CD pipeline efficiency.
- Expanded test coverage by 40% and established best practices with enforced linting, leading to higher code quality and reduced post-deployment issues.

Opentext   **May 2019 – Feb 2021**
Software Engineer – iHub   *India*
- Designed and developed a variety of frontend chart components, enhancing data visualization flexibility by 20% to offer customers more customized insights and display options.
- Improved API performance by implementing asynchronous processing and containerized applications, reducing deployment time by 40% and boosting overall system responsiveness.

PROJECTS

Dependency Confusion | *Golang, docker, linux*
- Engineered a robust security tool to detect and eliminate security vulnerabilities in lingering free namespaces across Python, JavaScript, PHP, and Maven;, enhancing system integrity and reducing potential breaches by 40%

NightWolf | *AWS, IAM, docker, python*
- Engineered "NightWolf," a robust rule-based engine responsible for identifying misconfigurations and security anti-patterns in AWS accounts, ensuring compliance and best practices.

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 a CMS open-source software.

- Contributed to FOSSASIA's Meilix project, enhancing Linux OS customization features and fixing critical bugs to improve user experience and accessibility for the open-source community.

EDUCATION

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