Pallavi Paladugu

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience building secure, scalable backend systems. Proficient in Python, FastAPI, Kafka, and CI/CD pipelines. Expertise in integrating security best practices into the development lifecycle, delivering microservices used by 50K+ developers, and optimizing system performance. Passionate about solving complex problems with a security-first mindset.

EXPERIENCE

SME: Application Security   Jul 2021 – Sept 2024
Morgan Stanley (via Wiley Edge/Mthree)   *Bangalore, India*

- Designed and developed Kafka-based event-driven microservices architecture used across 10–15 services.
- Implemented API features including caching, rate limiting, authentication, pagination, and versioning.
- Delivered secure, high-scale services supporting 50K+ developers and 5K+ daily releases across 60K+ projects.
- Optimized Hadoop-based scanning pipeline, reducing job time from 48 hours to 12 minutes.
- Led OS upgrade migration (RHEL6 → RHEL7) to reduce vulnerabilities and modernize infrastructure.
- Handled observability using Splunk logs, dashboards, alerts (PagerDuty), and on-call support.
- Integrated secure coding practices and DevSecOps tooling as part of Agile SDLC.

Associate 3: Cyber Security Engineer   Sept 2024 – Present
Morgan Stanley   *Bangalore, India*

- Automated Snyk SAST tool integration at multiple stages (IDE, PR, release) to enforce shift-left security.
- Built a MongoDB + SARIF-based system to store, parse, and evaluate vulnerability data.
- Used Open Policy Agent (OPA) to automate production release blocking based on OWASP Top 10 risks.
- Enabled CI/CD enforcement of security gates, improving time-to-deploy with reduced manual oversight.
- Collaborated with cross-team stakeholders and development squads to drive secure SDLC adoption.

PROJECTS

gRPC Server-Client API | *Golang, Protobuf, Server-Client Communication*   Jan 2024

- Built a Golang gRPC-based CRUD service using Protocol Buffers to demonstrate efficient server-client communication. Modular, testable, and designed for scalability.

AI Typing Assistant | *Olama, python: pynput, pyperclip*   Feb 2024

- Created an AI-powered real-time grammar corrector using Olama LLM. Integrated with system clipboard and keyboard listeners to enhance writing workflows.

EDUCATION

MLR Institute of Technology   Hyderabad, India
Bachelor of Technology in Information Technology   *Aug. 2017 – May 2021*

TECHNICAL SKILLS

Languages: Python, Golang, Shell Scripting
Frameworks & APIs: FastAPI, gRPC, Protobuf
DevOps & Tools: Docker, Jenkins, Ansible, Git, CI/CD, Postman
Security Tools: Fortify, Snyk, Contrast, OSS, IAST
Observability: Splunk, PagerDuty
Systems & Platforms: Linux (RHEL), Kafka, MongoDB, Hadoop
Concepts: SDLC, OOP, Agile/Scrum, Secure Coding, Microservices