

Gaurav Vanvari

Software Engineer

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Experienced and results-oriented Software Engineer with a track record of 7 years in development and testing. Dedicated to ensuring the reliability and quality of applications to deliver exceptional customer experience.

Professional Experience

Bloomberg LP | Princeton, NJ

Sep 2020 - Present

Bloomberg's EMS manages end-to-end workflows, enabling dynamic control of positions and portfolios

Software Engineer

- Designed and developed backend testing application and its APIs using Python. The published APIs in the artifactory eliminated effort duplication and made EMSX more reliable
- Developed a scenario management and status reporting tool for the team using Typescript, R+, and Comdb2 to enhance test coverage and categorize test failures
- Automated 110 EMSX UI workflows using Typescript, BDD, and Cucumber and 250 backend workflows reducing manual regression testing time by 33% (from 11 to 8 hours)
- Automated daily build processes using Jenkins, deploying on both Windows VMs in Azure and Linux machines in Bloomberg Cloud, ensuring seamless integration and continuous delivery
- Configured Bloomberg Cloud environments to store and test build artifacts, facilitating detailed debugging, analysis, and compliance auditing
- Spearheaded the team as the Scrum Master, steering initiatives such as organizing Sprint Planning, Sprint Retrospective, roadmap planning, demos, and feedback to stakeholders
- Devised a Python-based security price Tracker and alert System to update feature files with changing prices and report expiring securities, minimizing test suite disruptions
- Configured isolated and reproducible local development environments using Docker containers, ensuring consistent setup across multiple Python projects and eliminating dependency conflicts
- Developed a Python-based machine learning project using error messages and failure categories to eliminate false positives and automate ticket creation for remediation
- Championed product awareness and team growth through mentoring, training, and demos

Environment: *Behavioral Driven Development (BDD), Python, TypeScript, Cucumber, Gherkin, Jenkins, Bloomberg Terminal, GitHub, Grafana, GUTS, Splunk, Humio, NodeJS, Docker, Azure, Chromium*

IronNet Cybersecurity | Tysons Corner, VA

Sep 2017 - July 2020

IronDefense, IronNet's Next-Generation AI/ML Network Traffic Analysis (NTA) solution, detects network anomalies machine learning, and threat intelligence along the Cyber Kill Chain.

Software Engineer in Test

- Development: Developed and tested IronDefense API's and integrations with various tools (CrowdStrike, Phantom, QRadar, ServiceNow, Splunk, Swimlane, and XSOAR) to expedite security alert triage
- UI Test Automation: Automated 15% of manual tests through Cypress.io, boosting regression test runs tenfold and optimizing efficiency
- Backend Test Automation: Automated functional testing by replacing TestRail test cases with Go, gRPC Postman for nightly TeamCity runs

- Release Verification: Collaborated with the data science team to create 13 network scenarios and traffic anomalies using Ixia to trigger alerts and validate the product
- Chaos Testing: Conducted proactive Chaos Testing by leveraging Grafana to simulate service failures, successfully averting 12 high-impact chaos failures prior to release
- Load and Soak Testing: Benchmarked and certified 1G, 5G, and 10G IronDefense sensors to ensure consistent data ingestion and processing
- Manual Testing: Reported and validated over 200 bugs and 700 tasks/bugs throughout 20 IronDefense releases, contributing to product stability and quality
- Mentorship: Mentored and delegated test cases to new hires, improving test quality and release cycles
- Collaboration: Authored sales, customer, and SRE documentation, ensuring a seamless deployment process, and supported the Sales team in delivering effective IronDefense demonstrations to partners

Environment: *Agile, AWS, CitusDB, Cypress, Docker, Git, Go, gRPC, Grafana, Ixia, Java, Jira, Javascript, Kubernetes, Postgres, Postman, Python, REST API, TeamCity, TestRail, cURL, EDR, ITSM, SIEM, and SOAR*

Cogent Infotech | Salem, OR

May 2017 – Sep 2017

Software Engineer

- Developed batch jobs such as Assistance Status Change, Assess Annual Service Free, Process Suspended Collections and Electronic Payment Withdrawal using Java and Hibernate
- Developed Java-based Batch Jobs to trigger and display results for workers and case managers

Environment: *Hibernate, HQL, IBM (DB2, Jazz, RTC, Data Studio), Java, Jira, SonarLint, XML*

MediaTek USA Inc. | San Jose, CA

May 2015 - Aug 2015

Software Engineering Intern

- Created a packet Generator that generates Architected Queuing Language (AQL) packets in accordance with Heterogeneous System Architecture and OpenCL 2.0 specifications using C++
- Implemented a Queue for efficient buffering of CPU-generated packets to optimize GPU processing

Environment: *C++, HSA, OpenCL, Perforce*

Certification and Training

API Security Foundations, APIsec University

April 2024

OWASP API Security Top 10

Security+, CompTIA

Dec 2023

IAM, Wireless Networks and Attacks, Malwares, Application Vulnerabilities and Attacks, Risk Management, Protecting Backups, Cryptography, Hashing, Data Classification, PKI

Certified Cloud Practitioner, AWS

Jan 2020

Availability Zones, AWS CloudTrail, Amazon EC2, AWS Billing Console, Amazon S3, Route53, IAM

Education

New York University | Brooklyn, NY

May 2016

Master of Science in Computer Engineering, GPA: 3.4/4.0

Indraprastha University (GGSIPU) | New Delhi

June 2014

Bachelor of Technology in Electronics and Communications Engineering, 3.5/4.0