Matthew Gates

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Software engineer with a strong automation, testing, and web development background. Specialized in containerization using Docker, implementing REST API testing/monitoring with a focus on automating environments and test workflows. Proven track record delivering scalable solutions in an Agile environment.

SKILLS

- Development: Java, Python, C++, Maven, MongoDB, ActiveMQ, React, Tailwind CSS
- Frameworks: Docker, Kubernetes, Helm, Prometheus, Grafana, OpenTelemetry
- Management: Jira, Confluence, GitLab CI/CD, Postman, Draw.io, Synopsis SRM

WORK EXPERIENCE

Northrop Grumman - Rancho Bernardo, CA

Associate Software Engineer   *Aug 2023- May 2025*

- Develops software in an agile environment, completing tasks within two-week sprint cycles
- Previous work completed:
    - Designed and implemented an observability suite in Kubernetes using Istio, Prometheus, Grafana, and OpenTelemetry to monitor REST API latency and availability.
    - Enhanced system traceability by manually inserting JMS headers to enable metrics.
    - Created a program to retrieve XML files from an online repository via URL integration, streamlining configuration processes between multiple services.
    - Automated the startup of multiple services using Docker, reducing manual testing time and increasing deployment consistency.
- Documented processes and solutions, complemented by demo videos for knowledge sharing.

College Technical Summer Intern   *Jun – Aug 2019-2022*

- Automated data organization and creation of burnups by developing macros in Excel
- Wrote scripts in Python for efficient inventory management with improved accuracy
- Designed a unit test template in C# to streamline the development process for other programs

EDUCATION

Santa Clara University - Santa Clara, CA

Bachelor of Science in Computer Science and Engineering   *Graduated June 2023*

- Senior Design Project: Developed an interactive VR experience of the campus integrated with a custom-built website to provide diverse perspectives for prospective students

CERTIFICATIONS

- CompTIA Security+   *January 2024*