

Malachi Flynn

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SUMMARY

Software engineer with more than six years building **full stack** applications, **manufacturing** platforms, event driven services, and operational tools for high throughput industrial environments. Develops reliable products from user discovery and prototypes through architecture, implementation, testing, deployment, monitoring, and production improvement. Applies Python, Go, **C#.NET**, React, PostgreSQL, SQL Server, Kafka, RabbitMQ, Docker, Kubernetes, Linux, Terraform, Ansible, Bazel, Gradle, pip, and npm across mission critical workflows. Translates factory and engineering needs into APIs, data models, single page applications, streaming integrations, and measurable operational improvements. Partners with manufacturing engineers and software teams through architecture, design, and code reviews. Brings practical experience with profiling, **continuous integration**, deployment automation, and production support, with a clear focus on dependable software that helps operators make better decisions.

EXPERIENCE

Senior Software Engineer, Manufacturing Platforms

April 2024 - Present

Red Mesa Automation

Austin, TX

Owns manufacturing execution software across React interfaces, Go services, PostgreSQL models, and equipment events. Leads architecture, delivery, deployment, monitoring, and engineering reviews for operational products used by manufacturing teams.

- Owned React, **Go**, and **PostgreSQL** execution platform supporting equipment events and operator decisions.
- Designed Kafka processing for machine events, preserving production context across **manufacturing workflows**.
- Built manufacturing prototypes with engineers, validating workflows and quantifying technical constraints before implementation.
- Established Docker and Kubernetes **deployment** patterns with health checks, safeguards, and production **monitoring**.
- Profiled API, query, and frontend paths, resolving workstation responsiveness bottlenecks for operators.
- Led architecture, design, and **code reviews** while mentoring engineers on testing and failure handling.

Software Engineer, Production Applications

July 2022 - March 2024

ForgeLine Systems

Austin, TX

Delivered production applications for work orders, inspections, and material status using React, C#.NET, **SQL Server**, RabbitMQ, Docker, and Linux automation. Improved release confidence through integration testing, **continuous integration**, troubleshooting, and operational runbooks.

- Delivered **React** applications with **C#.NET** APIs for work orders, inspections, and material status.
- Modeled production, part, and inspection records in SQL Server, standardizing service interfaces.
- Introduced integration tests and continuous integration checks around critical production workflows.
- Integrated **RabbitMQ** messaging with retry and dead letter handling for dependable event processing.
- Packaged services with **Docker** and maintained Linux deployments through automation and operational runbooks.
- Investigated production issues using logs, database traces, and application profiling techniques.

Associate Software Engineer, Factory Software

June 2020 - June 2022

Bluebonnet Industrial Software

San Marcos, TX

Built Python services, React screens, REST APIs, and PostgreSQL schemas for factory equipment status, operator entries, production counts, shifts, and jobs. Supported **continuous delivery** through testing, package management, build improvements, and performance analysis.

- Built **Python** services and React screens for equipment status, operator entries, and production counts.
- Developed REST APIs and PostgreSQL schemas for equipment, shift, and job records.
- Added unit and integration tests to **continuous integration**, supporting dependable delivery practices.
- Used npm and **pip** while improving **build** scripts for consistent application artifacts.
- Measured query plans and application timings, revising **data** access for faster responses.
- Applied review feedback on maintainability, error handling, and operator workflows.

Software Development Intern, Test Tools

May 2019 - May 2020

Hill Country Controls

New Braunfels, TX

Created supervised web tools for test fixtures and assembly records using JavaScript and Python. Supported technicians, testing, documentation, local setup, performance checks, and release practices while collaborating with software and manufacturing stakeholders.

- Created supervised web tools for test fixtures and assembly records using JavaScript and **Python**.
- Implemented form validation and APIs for technicians entering build and test information.
- Wrote automated tests and documented repeatable local setup steps for project contributors.
- Used UNIX like tools, Git, pip, and **npm** while learning release practices.
- Measured page response times and corrected inefficient data access under senior guidance.
- Presented completed application and documentation to software and **manufacturing** stakeholders.

PROJECTS

Factory Event Visibility Platform 📅 2025

A practical effort to make equipment signals easier for operators to trust. Built event processing with Kafka, Go, PostgreSQL, and React, giving production teams clearer context for machine status and quality decisions.

Production Workflow Prototype Studio 📅 2024

Started with conversations beside manufacturing engineers, then shaped prototypes around real operator needs. Tested workflow ideas early, surfaced technical constraints, and guided efficient implementation choices before full product delivery.

LEADERSHIP & AWARDS

- Engineering Excellence Peer Recognition, 2025
- Manufacturing Platform Delivery Recognition, 2024
- Technical Mentoring Contribution, 2026

EDUCATION

Bachelor of Science in Computer Science

2020

Texas State University GPA: 3.8

San Marcos, TX

Coursework: Software Engineering, Database Systems, Operating Systems, Algorithms

CERTIFICATIONS

- AWS Certified Developer - Associate 📅 2024
- Kubernetes and Cloud Native Associate 📅 2025

TECHNICAL SKILLS

- **Programming Languages:** Python, Go, C#.NET, Java
- **Frontend Frameworks:** React, Angular, JavaScript
- **Databases:** PostgreSQL, SQL Server, SQL
- **Messaging Systems:** Apache Kafka, RabbitMQ, ActiveMQ
- **Containers:** Docker, Kubernetes, container deployment
- **Build Tools:** Make, Bazel, Gradle
- **Package Management:** pip, npm, package management
- **Infrastructure Automation:** Terraform, Ansible, Puppet
- **Testing and Quality:** Unit testing, integration testing, code reviews
- **Delivery Operations:** Continuous integration, continuous delivery, deployment
- **Systems and Versioning:** UNIX like systems, Linux, Git
- **Application Architecture:** Full stack development, system design, REST APIs

SKILLS

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|----------|--------------|--------------------------|----------------------------|
| • Python | • Kafka | • SQL Server | • Performance profiling |
| • C#.NET | • Docker | • System design | • Full stack development |
| • Go | • Kubernetes | • Version control | • Single page applications |
| • React | • PostgreSQL | • Continuous integration | |

PROFESSIONAL AFFILIATIONS

- Manufacturing Software Mentoring Circle, 2024 - 2026
- Texas State University Computer Science Alumni Network, 2020 - Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST