

MICHAEL TRACY

DevOps Engineer & System Administrator

PROFILE

DevOps engineer with 10 years of professional experience in systems and software. Linux and shell scripting expert. Extensive experience developing, testing, deploying, and maintaining production applications. Currently designing GitLab CI/CD and Tcl automation for FPGA builds (Vivado, Libero) and using Claude Code, Codex, and MCP servers for custom tooling.

WORK EXPERIENCE

Advanced DevOps Specialist

May 2026 → Present

General Dynamics Mission Systems

Design GitLab CI/CD for FPGA delivery, moving Vivado and Libero desktop flows onto automated pipelines.

- Own CI/CD architecture for FPGA projects: migrate manual Vivado and Libero desktop flows onto full GitLab CI/CD
- Design staged pipelines for synthesis, implementation, and bitstream generation, with artifacts and promotion between stages
- Build reusable GitLab CI patterns (includes, runners, job graphs) so multiple FPGA repos share the same delivery path
- Write Tcl for Vivado and Libero so FPGA builds run in CI instead of a GUI

Technical Solutions Engineer

Jan 2024 → May 2026

Tracy Contracting LLC

Design and deliver custom technical solutions spanning full-stack web development, infrastructure, and systems integration.

Purposeful Giving Alliance (PGA):

- Built and deployed a full stack web application on a VPS using Python FastAPI and JavaScript
- Implemented role-based login for admins and volunteers
- Registered volunteers and event attendees, processing 10,000+ people
- Integrated a CRM backend for attendee and volunteer data
- GitLab CI/CD, Docker, and Kubernetes for delivery

Production Assurance & Resiliency Engineer

May 2021 → Jan 2024

Early Warning Services, LLC (Zelle)

Deployed, tested, and maintained production ETL pipelines supporting financial data processing at scale for the Zelle payment network.

- Automated tests in CI/CD for 45+ internal datasets
- Provisioned and configured internal applications on AWS
- Lead cross-team troubleshooting in code and infrastructure
- Saved 10+ hours of daily work through self-initiated automation

System Administrator

Mar 2018 → May 2021

Oracle Corporation

- Task automation with Python and internal REST APIs
- System checks for Oracle Exadata platforms
- Identify and resolve complex network issues

Project Lead

Apr 2016 → Mar 2018

Pinebreeze Technologies Inc

- Nationwide upgrades and configuration for EOL hardware and software
- Coordinate teams and delegate work on projects

CONTACT

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PORTFOLIO

</> git.tracy.sh/michael
🌐 cv.tracy.sh

SKILLS

Linux	10yr.
Vim	10yr.
Bash	10yr.
Python	8yr.
GitLab CI	5yr.
CI/CD	5yr.
Docker	5yr.
AWS	5yr.
Kubernetes	5yr.
Jira	10yr.
Confluence	10yr.
Hadoop	3yr.
Kafka	3yr.
Spark	3yr.
SQL	6yr.
PowerShell	3yr.
JavaScript	2yr.
AI	5yr.
Tcl	1yr.
Vivado/Libero	1yr.

i Years represent professional experience. Bars represent personal skill assessment.