

WILLIAM ELIAS

SOFTWARE, DEVOPS & PLATFORM ENGINEER

Python | C#/.NET | Go | Azure DevOps | CI/CD | REST APIs | ASP.NET Core

Michigan | Open to U.S. Remote Opportunities | WylElias.123@gmail.com

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PROFESSIONAL SUMMARY

Software, DevOps and Platform Engineer with 10+ years across software delivery, production operations, infrastructure, and networking. Builds Python, C#/.NET and Go tooling, Azure DevOps CI/CD, internal applications, credential-remediation automation, and production-support systems. Brings hands-on production troubleshooting, observability, API security, release automation, and AI-assisted engineering with human review.

PROFESSIONAL EXPERIENCE

Stellantis Financial Services US

Feb 2023 - Present

Production Support Engineer | DevOps & Automation | Auburn Hills, MI · Hybrid

- Directed a CI/CD standardization program across a 60-repository, 104-application internal estate, completing standardized-pipeline rollout to 28 repositories. Stood up 56 Azure DevOps build/release pipeline definitions across 28 standardized application repositories.
- Executed and validated builds across all 28 repositories (27 passed, with the remaining failure diagnosed and logged); dry-run validated representative deployment paths for 25 of 28, with the remaining checks blocked by upstream/environment or tooling conditions. Reviewed and classified 109 existing definitions, identifying 95 legacy and 14 already-aligned definitions, and resolved several latent delivery defects spanning path-handling assumptions, configuration drift, and false-success states.
- Built and maintain an internal ASP.NET Core (.NET 8) Razor Pages production-support portal with SQL Server and SQLite persistence, role-gated approval workflows, audit logging, live configuration diffing, pre-change-review visibility, and integrated service-desk request tracking.
- Built a suite of Python developer and operations tools spanning Azure DevOps REST API automation, failed-payload triage, scheduled query-to-email reporting, XML integration-log parsing, ranked engineering search, automated RCA, reusable operations CLI functionality, and recurring production-support workflows; standardized the team on uv for Python dependency and tooling management.
- Designed and delivered a Go-based self-service deployment CLI covering the build-to-rollback lifecycle with guided setup, Azure DevOps REST integration, config parsing, pipeline generation, build/push/deploy, rollback, status, audit, and post-deployment validation.
- Led a credential-remediation initiative that scanned thousands of configuration files, reduced 866 findings to 67 distinct exposed secrets, and built classification tooling to support migration to Azure Key Vault. Built Git-history remediation automation with repository discovery, interchangeable rewrite engines (including BFG Repo-Cleaner), and coordinated force-push cleanup.
- Maintain the release-tracking process for a recurring, roughly weekly production release cadence and participate directly in production deployments. Authored and maintain a reusable 22-query KQL library used across monitoring and troubleshooting automation. Designed a scoped OAuth 2.1 resource server with JWT/JWKS validation, content allowlisting, and explicit token-validation-bypass defenses.

HBK - Hottinger Brüel & Kjær

Jul 2020 - Feb 2023

DevOps Engineer - Python Automation | Southfield, MI · Remote

- Created Python/Tkinter XML-output automation that reduced data-processing time by 60%; automated SQL output processing to save more than 40 hours per month.
- Developed database-configuration tools to streamline customer onboarding and reduce repetitive environment setup.
- Built NSIS installer/uninstaller packages, maintained Git workflows and developer tooling, and provided live customer troubleshooting.

CORE EXPERTISE

Software & Backend: Python, C#, .NET, ASP.NET Core, REST APIs, Go

DevOps & Delivery: Azure DevOps, CI/CD, Release Automation, YAML Pipelines, Git, Containerization

Automation & Developer Tooling (*Python/PowerShell professionally; Go for deployment tooling; uv for Python standardization*): Python, PowerShell, REST APIs, Go, uv, Developer Tooling

Production & Reliability: Azure Monitor, Application Insights, KQL, Structured Logging, Incident Triage, RCA

Security & Identity: OAuth 2.1 / OIDC, JWT, Credential Remediation, Git History Remediation, Azure Key Vault, PII Safeguards

Infrastructure & Application Operations: Windows Server, IIS, Active Directory, SQL Server, Load Balancers, Firewalls

AI-Enabled Engineering (*Internal tools & projects*): LLM APIs, MCP, RAG, Agent Workflows, Human Review, Engineering Knowledge Systems

SELECTED ENGINEERING HIGHLIGHTS

Software & Internal Developer Tools

- Built and maintain an internal ASP.NET Core (.NET 8) Razor Pages production-support portal with SQL Server and SQLite persistence, role-gated approval workflows, audit logging, live configuration diffing, pre-change-review visibility, and integrated service-desk request tracking.
- Tech: C#, .NET 8, Razor Pages, ASP.NET Core, SQL Server, SQLite*

CI/CD & Release Engineering

- Directed a CI/CD standardization program across a 60-repository, 104-application internal estate, completing standardized-pipeline rollout to 28 repositories. Stood up 56 Azure DevOps build/release pipeline definitions across 28 standardized application repositories, executing and validating builds and representative deployment paths before rollout.
- Tech: Azure DevOps, Python, PowerShell, .NET, IIS*

Python Automation & Developer Productivity

- Built a suite of Python developer and operations tools spanning API automation, failed-payload triage, scheduled reporting, integration-log analysis, engineering search, RCA, and recurring support workflows.
- Tech: Python, REST APIs, Azure DevOps, Automation, uv*

SELECTED OPEN-SOURCE ENGINEERING

HowlPlane

- github.com/howlcipher/howlplane
- Built a Python/Go engineering control plane that routes work across coding agents, reconciles independent reviews, and runs deterministic verification.
 - Added durable evidence recording and human-controlled authority boundaries for consequential actions, with shared project context and CI/security checks.

RedrawUS

- github.com/howlcipher/redistricting-map
- Built a multi-state geospatial analysis platform with Python/R data pipelines and an interactive JavaScript map, persistent browser caching, and Web Workers.
 - Processes geographic datasets with GeoPandas, Shapely, and GerryChain; includes pytest, Vitest, and Playwright tests for data processing and application behavior.

EARLIER EXPERIENCE

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|--|---------------------|
| QA Developer, Intrepid Control Systems | Mar 2020 - Apr 2020 |
| - Wrote Mocha tests and debugged APIs across software and hardware integrations. | |
| Network Engineer, Project Worldwide | Jan 2020 - Mar 2020 |
| - Configured Cisco/Meraki infrastructure and executed multi-state network migrations with minimal downtime. | |
| Network Standards Engineer, Ford Motor Company | Sep 2019 - Dec 2019 |
| - Implemented global network standards, documentation, and IP-management systems. | |
| IT Network Engineer, Trendset Communications Group | Sep 2015 - Jun 2019 |
| - Maintained network standards, configurations, and documentation; supported critical production infrastructure. | |

EDUCATION & CERTIFICATIONS

M.S. Cyber Defense (In Progress) - Dakota State University

B.S. Information Technology - Colorado State University Global Campus

B.B.A. Business Administration - Rochester College

CCNA (Previously Held) - Cisco Networking Academy (2014 - 2017)