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**STRONG COMPETENCIES**

Python | C# | JavaScript | PostgreSQL | Network Administration | ETL Pipelines | Shell Scripting | Flask

Microsoft Office Suite **|** Pandas | Git Version Control | Docker | Kubernetes | Kafka | Airflow | YAML

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**TECHNICAL EXPERIENCE**

**Real-Time Market Sentiment & AI Trading Platform July 2025**

* Developed full-stack sentiment analysis platform with Python ML models, React dashboard, Kafka streaming, and Twitter/X API integration featuring real-time WebSocket updates
* Built production-ready microservices architecture using Docker, PostgreSQL, Redis with comprehensive monitoring (Prometheus/Grafana) and security middleware
* Designed scalable system architecture with load testing framework, demonstrating expertise in high-frequency financial data processing and real-time AI applications

**Nuclear Plant Monitoring System July 2025**

* Developed real-time C++ monitoring system for nuclear plant operations using SOLID design patterns, Modbus protocol communication, and Windows socket programming to track critical safety parameters
* Implemented enterprise-level security features including data encryption, input validation, and comprehensive unit testing with 15+ test cases covering common cybersecurity threats
* Created professional web dashboard with live data visualization and emergency alert system, demonstrating full-stack development skills for industrial safety applications

**Asset Management System June 2025**

* Developed a full-stack system using .NET Core 8, Angular 17, and SQL Server with CQRS and Domain-Driven Design.
* Integrated Entity Framework Core, JWT auth, REST APIs, and Swagger docs with 90%+ test coverage
* Delivered automated setup scripts and a polished frontend using TypeScript and SCSS

**Industrial Marking System Controller July 2025**

* Built Lua plugin system for industrial marking operations with custom validation and compliance modules across automotive, medical device, and food packaging industries
* Integrated PLC hardware communication using Modbus protocols, discrete I/O control, and real-time monitoring for production line automation
* Developed complete system architecture with TCP/IP networking, configuration management, and professional technical documentation including client Statement of Work templates

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**WORK EXPERIENCE**   
**IT Intern – JP2 Architects - Baltimore, MD April 2025**

* Supported IT infrastructure by onboarding new users, configuring workstations, updating operating systems, and maintaining software tools across the office network.
* Disassembled and repurposed legacy hardware components, contributing to IT asset management, parts inventory tracking, and system optimization.

**EDUCATION**

**Youngstown State University — Bachelor of Science, Computer Science**