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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**

**DistributedFS - High-Performance File Storage System July 2025**

* Architected and implemented a distributed file storage system in C++17 and Python featuring multi-threaded async operations, AES-256 encryption with OpenSSL, and a REST API managing 1000+ concurrent file operations with SQLite database integration
* Developed enterprise-grade security and testing infrastructure including automated CVE vulnerability scanning, comprehensive unit/integration test suites, and production-ready Docker containerization with CMake build automation
* Built production-quality codebase with 900+ lines of C++/Python code demonstrating advanced STL usage, thread pool management, cryptographic operations, and distributed system design patterns aligned with storage industry standards

**TechGear Pro - E-commerce Website July 2025**

* Developed a fully functional e-commerce website using HTML5, CSS3, and JavaScript with Bootstrap framework, featuring a responsive product catalog, interactive shopping cart with localStorage persistence, and real-time search/filtering capabilities across 12+ product categories
* Implemented advanced frontend functionality including dynamic product rendering, debounced search optimization, form validation, and smooth animations using modern ES6+ JavaScript and jQuery, resulting in a professional user experience optimized for mobile and desktop devices
* Created a complete project architecture with structured JSON data management, custom CSS animations, and professional documentation, demonstrating full-stack development thinking and agency-ready code organization suitable for client projects

**Healthcare Marketing Analytics Dashboard June 2025**

* Developed comprehensive healthcare marketing analytics platform using Python, SQL, and advanced statistical modeling (Media Mix Modeling, Multi-Touch Attribution) to optimize patient acquisition campaigns across 7 marketing channels and 6 medical specialties, demonstrating ROI improvement opportunities of 12-15%
* Built ensemble predictive forecasting models (Random Forest, Gradient Boosting, Linear Regression) with cross-validation for marketing budget optimization, featuring interactive Streamlit dashboards with 15+ Plotly visualizations for executive decision-making and scenario analysis
* Designed and implemented normalized SQL database architecture with 3 relational tables handling 500+ patient records and 100+ marketing campaigns, including complex queries for attribution analysis and custom analytics interface for ad-hoc healthcare marketing performance insights

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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**

**B.S. in Computer Science - Youngstown State University**