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David Villafaña IV

Full-scope Professional Résumé

Linkedin:
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- I build and maintain software, data pipelines, automation, and infrastructure.
- I lead projects and work with stakeholders to gather requirements and execute a vision.
- I learn quickly, adapt well, and enjoy solving architectural problems.
- Early AI adopter, AI-assisted development, extensive reviews and testing.
- I work with partisan and non-partisan political organizations and committees.
- Computer Science and Cyber Security adjunct professor.

SKILLS

Languages	Python, C#, Lua, Javascript, SQL, Nix, Bash, HTML/CSS, C/C++, Java, VB.NET, LaTeX, Typst
Data & Databases	Pandas/NumPy, Kafka, PostgreSQL, Oracle Database, SQL Server, SSMS, Azure SQL, SQLite
Web & APIs	Django, Flask, FastAPI, HTMX, jQuery, ReST API integrations
Infrastructure	GNU/Linux, Nix/NixOS, Ansible, AWX, Docker, Kubernetes, VMware, Proxmox, WireGuard
Cloud & Applications	Azure Cloud, AWS, Linode, Power BI, Office Suite, Office365, Excel, SAP
Communication	English, French (Conversational)

CAREER EXPERIENCE

Capital Credit Union

January 2024 - Present

Process Automation -- Software Engineer

- Infrastructure as Code (IaC) for VMware environment using Nix/NixOS and Ansible
- Configured and deployed AWX (Kubernetes) platform on VMWare for DSC and automation and AI workflows
- Deployed and integrated Kafka and PostgreSQL for CDC with Confluent and open-source connectors
- Managed process automation initiatives spanning document storage, FTP workflows, core system integrations, and more
- Automated document data flow, archiving, and queryable storage solutions
- Integrated REST APIs, vendor applications, and core banking systems.
- Automated user permissions and Active Directory administration
- Rebuilt IT asset tracking application in Django + HTMX on Linux
- Developed and deployed multiple FastAPI microservices
- Led cross-department automation and systems integration efforts by gathering requirements, and establishing stakeholders

Spectrum IT Solutions LLC

2024 - Present

Founder -- CEO

- Lead client-facing IT initiatives by scoping work, coordinating timelines and stakeholders, and executing deliverables
- Managed technology projects supported by federal grant funding, aligning activities, documentation, and reporting with program requirements
- Coordinated national vendors and external service providers for procurement, implementation, scheduling, and support for FEMA & DHS regulated physical and data security systems
- Built custom data analytics and dashboards for a state and federal PAC
- Ideated and built custom campaigning software tailored to organizational goals of a federal PAC

North Dakota Right To Life

2025 - Present

Vice President

- Ran board meetings, organized agendas, discussion flow, and follow-ups
- Coordinated lobbying efforts and legislative priorities
- Vetted and audited employees to support operational accountability, policy adherence, and organizational oversight

University of Mary

2025 - Present

Adjunct Professor of Computer Science & Cybersecurity (separate departments)

Bismarck, ND

- Developed curriculum from scratch and taught Introduction to Computer Science
- Developed curriculum and taught database and systems design

RPT Industries

Aug 2022 - December 2023

Full Stack Software Development -- Software Developer

- 2M+ LOC .NET codebase: bug fixes, new features, third-party integrations, QOL improvements, and performance engineering
- Deployed and configured WireGuard VPN for production server access (Debian)
- Integrated the primary web application with third-party applications through synchronous JSON and XML APIs
- DBA responsibilities: schema updates, query optimization, data imports, and application user management
- Performed routine diagnostics and analyses on production servers hosting the main application
- Coordinated third-party integration work and production support across internal and external stakeholders
- Designed, implemented, and orchestrated network, server, and cloud infrastructure for development, QA, and production

Doosan Bobcat

Jan 2022 — July 2022

Reporting Solutions and ETL Developer -- Business Intelligence Coop

Bismarck, ND

- Completed lift and shift migration from deprecated reporting app (Silverlight) to Power BI Reporting
- Gathered stakeholder requirements, clarified reporting use cases, and translated needs into dashboard and data solution deliverables
- Generated a dashboard solution and curated data visualizations
- Increased efficiency by hours per day by creating a configurable data transformation interface
- Configured dataset and report sharing permissions and structured the solution for clean ownership transfer

Process Automation

- Converted and automated a six-hour-per-week Excel ETL process into a Python workflow requiring under 10 minutes per week
- Automated reporting for data-source dependency tracking with ReST APIs and Python
- Created a Python solution for querying databases and ingesting data into the reporting ecosystem
- Managed recurring ETL/ELT jobs written in Python, Bash, and awk
- Used JDBC, ODBC, cx_Oracle, and related database connectors for recurring dynamic ETL/ELT automation
- Consolidated tabular data from multiple sources into SQLite for easier report ingestion

EDUCATION

Bachelor of Science in Computer Science, University of Mary

Graduated - May 2022

ACCOMPLISHMENTS/INVOLVEMENTS

- FIRST Robotics Competitor - Programmer Role

2018 — 2019