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EXPERIENCE:

- 7 years - Systems Test Engineer
- 6 years - Full stack software developer (JavaScript / TypeScript, Python)
- 6 years - SQL and No-SQL databases (MSSQL, Oracle, PostgreSQL, NoSQL)
- 6 years - React and React Native Development - NextJS, Node, Express, Expo
- 3 years - AI Development - Chatbot interfaces, Langchain, HuggingFace OpenAI and Claude APIs, pgVector, RAG, NLP, ComfyU, StableDiffusion

EMPLOYMENT:

Senior Data Engineer - TechAnax (contractor): <https://www.fhwa.dot.gov/bridge/management/>

- *January 2023 - Present* - Federal Highway Administration, Ashburn, VA
 - Application, tool and database development for the FHWA Bridge Management Program.
 - Lead developer responsible mission critical server and application maintenance, QA/QC, reporting, AI tool creation and workflow implementation.
 - Pandas, geopandas, gradio matplotlib/seaborn, sqlalchemy, pytest, ASP.NET, API development, Google Gemini, Azure, MSSQL
 - Public Trust

JavaScript Developer - Trillion Technology Solutions: <https://www.ttsiglobal.com/>

- *November 2021 - January 2023* - Reston, VA
 - Full stack application development for military and government. Creating mobile and web software systems that
 - React and React Native applications (Web, Windows, iOS, and Android)
 - Redux / ContextAPI, Express, Tailwind, SCSS, GraphQL
 - Automated testing and configuration (JIRA + Katalon)
 - STIG requirements and test documentation

Senior Systems Test Engineer - Teledyne LeCroy, Protocol Solutions Group: <https://teledynelelecroy.com>

- *November 2013 - September 2021* - Charlottesville, VA and Farmington Hills, MI
 - ISO 9001 (Quality) and ISO 17025 (Test) lead auditor
 - Designing and implementing functional, system, integration and user acceptance testing
 - Automated system and UI testing (Selenium, Test Rails, PyWinAuto, PyTest)
 - Root cause analysis for wireless and wired protocols
 - Atlassian (Jira, Confluence, TestRail), Git, Visual Studio, Jenkins
 - Batch/Shell scripting (Kali, Ubuntu, Mint, Windows10, Windows 11)
 - RF environments / faraday shielding, real-world high SNR configuration, environment simulation
 - Preserving and organizing all test artifacts and authoring detailed test reports
 - 802.11 WiFi, 802.15.4 Bluetooth, NFC, Linux, and Node, USB Gen3/4

EDUCATION:

General Associates of Science, Germanna Community College

- 2011 - 2013

Certifications:

- 2019: CIW (3) - Advanced HTML5 and CSS3 Specialist, User Interface Designer, Website Design
- 2018: CompTIA (2) - Project +, A+
- 2013: Cisco (1) - CCENT

Hackathons:

- 2024: HackGPT
- 2025: LabLab AI, Google Vertex