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## EXPERIENCE:

- 8 years - Quality assurance, testing and automation
- 6 years - Software development (JavaScript / TypeScript, Python)
- 6 years - SQL and No-SQL databases (MSSQL, Oracle, PostgreSQL, MongoDB, Firebase, etc.)
- 6 years - React and React Native Development (TS/JS) - NextJS, Node/Express, Expo
- 3 years - Langchain, OpenAI and Claude APIs, pgVector, RAG, NLP, LLMs, (local and cloud, Replicate, Huggingface, Replit). AI Imagery: ComfyUI, StableDiffusion, Fal, etc
- Hackathons: Google Vertex, LabLabAI, HackGPT

## EMPLOYMENT:

TechAnax: <https://www.fhwa.dot.gov/bridge/management/>

- Ashburn, VA | January 2023 - Present
- Fullstack Developer
  - Application, tool and database development for the Federal Highway Administration. QA/QC, data analysis support and reporting for the Bridge Management Program.
  - Tools and scripting: SQL, pandas & geopandas, gradio applications, visualizations - matplotlib/seaborn, sqlalchemy, pytest, ASP.NET, API development, Azure DevOps
  - Active secret clearance

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

- Reston, VA | November 2021 - January 2023
- JavaScript Developer
  - React and React Native applications (Web, Windows, iOS, and Android)
  - REST/JWT middleware and authentication (Apollo GraphQL, Redux, etc)
  - Modern web protocol: React, ReactNative, Node, TypeScript, GraphQL, SQL
  - Automated test configuration (JIRA + Katalon)
  - STIG requirements and test validation

Teledyne LeCroy - Protocol Solutions Group: <https://teledynelecroy.com>

- Charlottesville, VA | April 2019 - September 2021
- Senior Systems Test Engineer
  - 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, SVN, Visual Studio

Frontline Test Equipment: <https://fte.com> (acquired by Teledyne)

- Charlottesville, VA | November 2013 - April 2019
- Senior Quality Assurance Engineer
  - 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:**

Software Development, Western Governors University

- Online | 2019 - 2021
- Course Focus: Java, SQL, Python

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