

Logan Toponce

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PROFILE

Data Analyst with five years of experience using Python, SQL, automated testing, and data visualization to solve technical problems and improve engineering workflows. Skilled in data cleaning, exploratory data analysis, dashboard development, and translating complex data into actionable business insights through Python, SQL, and Tableau.

TECHNICAL SKILLS

- **Programming & Databases:** SQL, Python, Pandas, Numpy, SQLite
- **Visualization & Analytics:** Tableau, Dashboard Development, Data Cleaning, Exploratory Data Analysis (EDA), Data Visualization
- **Tools:** Git, GitHub, GitLab, Jupyter Notebook, Linux, MacOS, Windows

PROFESSIONAL EXPERIENCE

Northrop Grumman | Software Test Engineer | 2026 - Present

- Developed Python automation scripts to replace legacy MATLAB workflows while migrating oscilloscope hardware communication from Ethernet to USB.
- Extracted and transformed raw waveform data from Keysight oscilloscopes into structured CSV datasets for analysis and reporting.
- Created automated Python visualizations to validate waveform accuracy by comparing generated plots with real-time oscilloscope output.
- Authored technical documentation for GitLab repository setup, installation workflows, and development processes to improve team onboarding and knowledge sharing.
- Maintained data integrity across requirements matrices and developed functional test cases supporting large-scale software initiatives.

Hill Air Force Base | Computer Scientist | 2024 - 2025

- Optimized Python automation frameworks by auditing and improving proprietary codebases, increasing efficiency for software test teams.
- Led the migration of Safety of Flight protocols from manual auditing to Python-driven semi-automated validation workflows.
- Reduced pipeline evaluation times from several days to weeks by automating data validation processes and minimizing manual configuration errors.
- Partnered with cross-functional engineering teams to troubleshoot automation pipelines and resolve software integration issues.
- Managed Linux virtual environments and validated hardware emulation software compatibility in collaboration with CyberOps engineering teams.
- Developed and executed F-22 simulation scenarios to verify system performance and validate data outputs against strict government requirements.

Kihomac | Junior Systems Engineer | 2022 - 2024

- Developed architectural systems documentation for complex A-10 avionics, documenting new software features, system architecture, and enhancement updates
- Collaborated architectural systems documentation for complex A-10C avionics, tracking new feature rollouts and core software enhancements.
- Developed Python automation scripts to validate software hotfixes and verify upcoming production features prior to release

XMission | Technical Support Specialist | 2021 - 2022

- Diagnosed and resolved enterprise internet, web hosting, and VoIP connectivity issues using Zoho CRM by investigating technical problems, identifying root causes, and collaborating with UTOPIA Fiber network administrators to restore customer services.

PROJECTS

Employee Attrition Analysis

Explored workforce data using Python, SQL, SQLite, and Tableau to identify factors associated with employee turnover.

- Used Python and SQL to analyze relationships between overtime, job satisfaction, income, department, and employee attrition.
- Created interactive Tableau dashboards to communicate workforce trends and support data-driven HR insights.

Superstore Sales Analysis

Analyzed retail sales data using Python, SQL, SQLite, and Tableau to identify trends in profitability, regional performance, and discount strategies.

- Standardized and analyzed sales data using Python and SQLite to support reliable SQL analysis.
- Built Tableau dashboards highlighting sales performance, profit margins, seasonal trends, and discount impacts.

Steam Data Analysis

Analyzed over 120,000 Steam games using Python, SQL, SQLite, and Tableau to uncover trends in pricing, player engagement, and game popularity.

- Cleaned and transformed a large gaming dataset using Python, Pandas, and SQLite for analysis.
- Created SQL queries and an interactive Tableau dashboard to communicate key business insights

EDUCATION

- **Bachelor of Science in Computer Science** - Weber State University, 2020
Minor - Entrepreneurship
- **Google Professional Certificate in UX Design** - Coursera / Google Certification