

Ali Nix

Data Analyst

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[LinkedIn](#) | [GitHub](#) | [Web Portfolio](#)

SKILLS

Data Analysis & Visualization: Pandas, Plotly, Tableau

Programming & Data Languages: Python, SQL, JavaScript, TypeScript

Databases & Query Tools: PostgreSQL, Knex.js, BigQuery, Snowflake, dbt, Firebase, REST APIs

Data Skills: Data Cleaning, ETL Pipelines, Statistical Analysis, Dashboard Creation, Data Storytelling

Tools & Technologies: Git, GitHub, Jupyter Notebook, VS Code, AWS, Pytest, Figma, Miro, Jira, npm

Web Development: React, Node.js, Express, HTML5, CSS3

Soft Skills: Cross-functional Collaboration and Communication, Research, Problem Solving, Attention to Detail

EDUCATION

Master of Public Health (MPH), Biostatistics

Kent State University

Bachelor of Arts, Psychology

University of Maine at Farmington

CERTIFICATIONS

- Data Science Certificate, General Assembly
- AWS Certified Cloud Practitioner, Amazon
- UX Design Certificate, Google
- Front End Engineering Certificate, Turing School of Software & Design

EXPERIENCE

Software Engineering/Data Analyst Intern, [Health Equity Tracker](#), Remote

Nov. 2023 - Present

- Built ETL data pipelines using Python and Pandas to extract, transform, and load maternal mortality data spanning 25+ years from multiple sources into BigQuery, streamlining data processing and analysis workflows.
- Queried BigQuery data using SQL to identify health disparities across demographic groups and inform policy decisions.
- Refactored data visualizations from Vega to D3, reducing dependencies by 8.6% and package size by 30%, improving performance and enabling policymakers and researchers to interpret health equity metrics more effectively, now reaching 85,000+ annual platform viewers.
- Integrated new public health datasets via React/TypeScript frontend, enhancing data visibility and accessibility.
- Developed automated end-to-end test scripts using Playwright for nightly test runs and unit tests with Pytest to ensure application functionality and code quality.
- Collaborated cross-functionally with engineering and public health teams as part of a pilot cohort that contributed 78 production commits to an active open-source codebase, ensuring data pipeline outputs aligned with health equity research and policy objectives.

Frontend Engineering Intern, [The Commons XR](#), Remote

Jan. 2024 - Jul. 2024

- Integrated Google Analytics to track user behavior and support data-driven decisions on retention and engagement.
- Developed 8 responsive UI features using React and Material UI to enhance the accessibility and presentation of mental health and educational resources for XR behavioral analytics platform.
- Streamlined PowerPoint conversion process using Python and Azure Functions API, eliminating manual uploads and enhancing data integrity and operational efficiency.

Code Coach, [theCoderSchool](#), Centennial, CO

Mar. 2023 - Jan. 2024

- Instructed 3-4 individuals on how to code with a 2:1 teaching ratio and an individualized curriculum.
- Increased students' learning progress in Python, JavaScript, or Scratch by 50 points from baseline through interactive learning, app development, and concept reviews.

Data Science Intern, [Optfit LLC](#), Denver, CO

May 2018 - Oct. 2018

- Prepared and preprocessed text-based data for statistical modeling and machine learning as part of text editor demo.
- Built thesaurus word recommender using Python and SpaCy for Natural Language Processing (NLP) on an open-source text corpus to improve vocabulary, clarity, and concision in English writing.
- Partnered with machine learning engineers and a data analyst to analyze and report F-score evaluation metrics for classification models, helping optimize the precision-recall tradeoff.

PROJECTS

Primary Care Shortage Analysis, *Solo Project*, [Repo Link](#), [Jupyter](#)

Mar. 2026 - Jun. 2026

- Designed ELT pipeline integrating 5+ public health datasets (CDC, HRSA, USDA, County Health Rankings) into Snowflake data warehouse using dbt Core with staging, intermediate, and mart layers across 3,144 US counties.
- Created 10+ derived variables across dbt layers; performed data quality checks via dbt generic tests on staging.
- Delivered interactive Plotly Dash dashboard visualizing primary care shortage severity, disease burden, and preventable hospitalizations, including a KPI summary row with a custom dark theme.
- Conducted exploratory data analysis and inferential statistical testing in Python (summary statistics, correlations, t-tests, ANOVA, chi-squared), and SQL analyses. Identified that high disease burden counties average 482 excess preventable hospitalizations per 100,000 Medicare enrollees above the national average.
- Leveraged AI tools such as Claude to troubleshoot Snowflake configuration, dbt model setup, and Git workflow issues, accelerating pipeline development.

Holistic Health Haven, *Solo Project*, [Repo Link](#), [Deployment](#)

Jan. 2025 - Nov. 2025

- Developed a full-stack e-commerce platform for holistic health products using PERN stack, Stripe, and TypeScript; implemented WebP image optimization that reduced file sizes by 98.9% and improved Lighthouse performance score from 72 to 94.
- Reduced application bundle size by 14% (564 KB to 486 KB) through code splitting and optimization, improving load times and user experience.
- Deployed backend API to AWS EC2 with PostgreSQL, PM2, and Nginx reverse proxy, and React frontend to Vercel; configured SSL certificates, custom domain routing, and security groups for production-ready HTTPS access.
- Migrated 25 product images from external URLs to self-hosted static files; debugged and resolved Nginx 403/404 static file serving, PostgreSQL connection errors in production, and API routing configuration; achieved 95/100 Lighthouse score.

Software Developer Apprenticeship, *makeitMVP*, *Remote*

Sept. 2024 - Oct. 2024

- Optimized Firebase/Firestore backend by refactoring and documenting reusable functions, reducing backend complexity by 25% and accelerating development efficiency.
- Developed responsive React features through close designer collaboration and Context API implementation, enhancing application state management and user experience.

Volunteer Frontend Developer, [Ashoka](#), *Remote*

Mar. 2024 - Jun. 2024

- Contributed to development of Strategy Inspiration Bot MVP, creating Figma wireframes and implementing as a React single-page application with Material UI.
- Integrated React frontend with Flask backend and OpenAI API to enable AI-powered search functionality, allowing social entrepreneurs to explore strategic frameworks.