

PREETHI SRIDHAR

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EDUCATION

M.S., Computer Science · New York Institute of Technology

Sept 2024 - May 2026

Relevant Coursework: Algorithm Concepts, Artificial Intelligence, Computer Architecture, Software Engineering, Operating Systems, Database Systems, Data Mining, Theory of Computation, Information Systems Security Engineering

B.S., Biology · New York Institute of Technology

Sept 2020 – Dec 2023

TECHNICAL SKILLS

- **Languages:** Python (Pandas, NumPy, SKLearn, Matplotlib, Seaborn), SQL, Java, JavaScript, Docker, HTML, CSS
- **Platforms/Tools:** Git/GitHub, BigQuery, Tableau, MongoDB, MySQL, Microsoft SQL Server, Snowflake, Databricks (Google Colab/Jupyter Notebook), Excel, Powerpoint, Spreadsheet

PROFESSIONAL EXPERIENCE

Extern

New York, NY

Breaking Games - SQL & Database Architecture Extern

Oct 2026 - Present

- Currently designing a relational analytics database schema from **six unstructured datasets**, establishing primary/foreign key relationships to integrate e-commerce sales, user journeys, and marketing channels.
- **Cleaning and transforming** messy traffic and transaction sources into structured **analytical models**, identifying bot traffic **anomalies** to refine cart abandonment metrics and data reliability.
- Writing advanced **SQL queries** to measure **Customer Acquisition Cost**, **User Retention metrics**, calculate **marketing channel ROI**, and build aggregate summary tables for cross-functional business intelligence.
- Leveraging **SQL** alongside **AI tools (Claude)** to build an interactive **HTML dashboard**, delivering data-backed recommendations on Q4 inventory restock and marketing spend optimization to company leadership.

TruBridge - Data Analytics Extern

Aug 2026 - Sept 2026

- Built Python data pipelines in Google Colab using **Pandas, Seaborn and Matplotlib**, to clean, aggregate, and analyze multi-source public health datasets across **2,300+ U.S. counties**.
- Applied **regression models** and quantile risk segmentation to evaluate how community-level nutritional access impacts adult diabetes rates nationwide.
- Created interactive **Tableau dashboards** and spatial mapping **visualizations** to identify geographic chronic disease hotspots and highlight priority states for optimal resource allocation.
- Presented findings and targeted clinical outreach recommendations to the TruBridge team.

Hofstra University

Software Engineering Professional Development

Jun 2025 – Nov 2025

- Shipped **4 production-ready web applications** across a 6-month apprenticeship, applying React, FastAPI, SQL, and Bootstrap in full-stack development cycles.
- Built and deployed with **FastAPI** and **SQL backends**, integrating authentication, data validation, and error handling.
- Collaborated using **Git/GitHub** workflows including branching, pull requests, and code review; mirroring industry standard engineering practices.

CERTIFICATIONS & AWARDS

Google Data Analytics Professional Certificate

Aug 2026

Best Presentation Award · NYIT Whole Health Community Datathon

Mar 2026

- Won Best Presentation across all competing college teams for data analysis examining **8,100+ NYC community health proposals** across 3 years using Python and the Social Determinants of Health framework.
- Built a custom Python **pipeline** to parse, clean, and tag NYC proposals across 3 SDOH domains; producing analysis-ready Excel outputs used directly in the final presentation.
- Architected and deployed a web-based digital data story using GitHub Pages to visualize longitudinal trends in NYC community burdens, ensuring findings were accessible and interactive for stakeholders.

PROJECT EXPERIENCE

TruBridge Population Health Analysis

Sept 2026

- Engineered Python data pipelines to analyze CDC/USDA public health datasets across **2,300 U.S. counties**, built risk-tier **regression models**, and presented an executive data briefing on clinical outreach directly to the TruBridge team.

Google Capstone: Cyclistic Bike-Share Data Analysis

Aug 2026

- Processed and cleaned **5.8M+ ride records** using Python to analyze rider cohort behavior/LTV modeling, building an interactive **Tableau dashboard** and deriving 3 targeted **marketing strategies** to convert high-duration casual riders into annual members.

iWish: Full-Stack E-Commerce Wishlist App

Nov 2025

- Built a **MERN-stack app** that supports account creation, product browsing via Fake Store API, and persistent wishlist management.

NFL Hub: Live Sports Data Dashboard

Sept 2025

- Consumed the **ESPN API** to render real-time scores, rosters, and schedules in a single page React app; designed a responsive **SCSS/Bootstrap 5** grid optimized across mobile and desktop viewports.