

FARHAN SREEJAN

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EDUCATION

Boston College

Boston, MA

Bachelor of Arts in Computer Science and Sociology

Present - 2027

- Adjusted GPA (excluding language requirement): 3.4
- Notable Courses Taken: Algorithms and Data Structures, Logic + Randomness and Computation, Analysis of Algorithms, Foundations of Algorithmic Unfairness
- Involvements: Teaching Assistant for CSCI1101, Marketing Chair and Digital Humanities at McMullen Museum of Art, WZBC Audio Engineer, Computer Science Society

EXPERIENCE

Human-AI Interaction Research Assistant

May 2026 – Present

Data Within Reach Lab, CS Department, Boston College

Boston, MA

- Developing AI-assisted literature review workflows through simulated review studies and contributing to the design of interactive Human-AI systems that promote responsible use of generative AI in academic research
- Built Python data collection and analysis pipelines using the Reddit API (PRAW) to scrape and analyze academic discussions on AI-assisted scholarship, informing study design and research hypotheses
- Developing interactive visualization prototypes for AI-supported literature review systems while iteratively refining interfaces through user feedback and co-design sessions

Data Science Intern/Researcher

March 2026 – Present

Boston College School of Social Work

Boston, MA

- Engineered end-to-end Python data pipelines to extract, OCR, clean, and standardize over 3000 public safety incident reports from Lawrence, MA, transforming unstructured PDF records into structured analytical datasets
- Built geospatial analysis workflows using Pandas, GeoPandas, Folium, and Census datasets to analyze crime patterns and demographic relationships through interactive maps and spatial visualizations
- Developed automated validation and data quality workflows for address cleaning, duplicate detection, and schema consistency across multi-year datasets, alongside thorough documentation of the pipeline

McNair Scholar and NSF REU

June 2025 – Present

Prud'hommeaux Lab, CS Department, Boston College

Boston, MA

- Trained and evaluated Automatic Speech Recognition Models with different datasets to understand the relationship between corpus type and ASR performance in endangered languages
- Used BC's high-performance computing clusters to deploy models and run benchmarks on over 100 hours of labeled data, yielding error rates as low as 2 percent
- Conducting joint thesis in Sociology and Computer Science in resourced ASR for Irish in the context of dialect preservation

PROJECTS

State Energy Forecasting Pipeline | *Python, Pandas, Scikit-learn, Matplotlib, LIME*

May 2026

- Built an end-to-end machine learning pipeline to clean, integrate, and model multi-source U.S. Energy Information Administration (EIA) datasets for forecasting next-year gasoline prices and petroleum demand.
- Implemented feature engineering, regression-based forecasting, LIME model interpretability, and automated data visualizations to produce reproducible technical analyses.

Spotify and Apple Music Analytics Comparison | *Python, Pandas, Matplotlib*

August 2025

- Processed and analyzed streaming analytics datasets for Fenway Recordings Artist Management to compare engagement and listening trends across Spotify and Apple Music.
- Developed visualizations and statistical summaries for artists including MGMT and Mission of Burma to identify platform-specific audience behavior and long-term listening patterns.

Credit Clarity Demo Lookup | *React, Next.js, Node.js*

May 2024

- Developed a full-stack demo application that simplified credit card comparison through user-friendly summaries and direct application links.
- Selected as 1 of 49 participants from over 340 applicants for the Capital One Tech Summit, where the application was showcased during the event.

Audio Research Labs STEP Port | *Qt Creator, Qt Design Studio, C++*

July 2022 – September 2022

- Collaborated directly with CEO Dr. Schuyler Quackenbush to port Subjective Training and Evaluation (STEP) audio-testing software to Apple platforms.
- Implemented Qt GUI components and interface layouts supporting controlled A/B listening tests used for internal audio evaluation workflows.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, Verilog, HTML/CSS, Qt, R, Stata

Tools/Libraries: Git, VS Code, IntelliJ, React, Node, Next.js, Pandas, Matplotlib, PyTorch, Transformers, duckDB, Bootstrap, Conda, Colab, NumPy, Altair, GeoPandas/Py, Streamlit, PyTesseract