Jiaxiong (Jason) Guan

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EDUCATION

Hunter College, City University of New York — Aug 2022 – Dec 2025
B.A. - Computer Science, Focus in Human Biology; GPA: 3.4

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, Java, SQL
Tools: TensorFlow, React, Git, WordPress, Tableau, PyTorch, HuggingFace Models, Jupyter Notebook
Databases: PostgreSQL, MongoDB, Neo4j
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, Selenium

EXPERIENCE

Data Science Fellow — Jul 2024 – Present
CUNY Tech Prep
- Selected for a competitive data science fellowship with students from across the 11 CUNY senior colleges where Fellows create technical projects using tools such as Python 3, Jupyter Notebooks, Pandas, Scikit-learn, and SQL
- Participated in weekly courses and learned industry best practices for exploratory data analysis (EDA), feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science process, and big data

Technical Operations Intern — May 2024 – Aug 2024
The Bee Conservancy
- Managed customer relations database, ensuring accurate input of partner and donor information to track the distribution of grants and funding totaling hundreds of thousands of dollars
- Leveraged Google Analytics and Hotjar to monitor website performance and user flow, implementing insights that boosted web pages to the top 2 SEO rankings for targeted keywords
- Designed and developed community-focused educational web pages, resulting in 20% increased site traffic

Sustainability Market Analyst Intern — Mar 2024 – Apr 2024
New York City Economic Development Corporation
- Spearheaded a comprehensive market research initiative focusing on the life sciences sector in NYC, analyzing industry trends and projections to guide strategic investment decisions.
- Developed and presented strategic programs aimed at enhancing the growth and competitiveness of NYC's life sciences ecosystem

PROJECTS

RX-ID | *PyTorch, DeepSeek, Sentence Transformers, Computer Vision, Supabase* — Feb 2025 - Present
- An AI-powered medication identifier that also generates summaries of medical data, from FDA and NIH datasets, aiming to raise awareness and reduce medical mistrust
- Engineered an optimized data pipeline leveraging FAISS and embedding-based retrieval, enabling rapid and accurate information augmentation
- Designed an agentic RAG framework with DeepSeek, dynamically integrating specialized LLMs for improved domain-specific reasoning.
- Trained CNN computer vision models on NIH & FDA images to identify pills, improving accessibility for patients and healthcare providers

Dishcovery | *FAISS, Sentence Transformers, NLTK, TensorFlow* — Sep 2024 - Dec 2024
- Collaborated with a team to design and implement a personalized recipe recommendation system utilizing user preferences such as cuisine, taste, and desired ingredients
- Utilized TensorFlow to build an ensemble strategy combining k-Nearest Neighbors and Approximate Nearest Neighbors, trained on a dataset of 500,000 recipes
- Applied NLP through Sentence Transformers and NLTK to process and generate embeddings for 300,000 ingredients and nutrition, allowing for near-instant querying with vector database