Han Lu

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SUMMARY

Data Science graduate student with experience in data analysis, machine learning, and application development. Passionate about applying machine learning models and influencing data-driven decision-making. Excited to work with and interpret large datasets utilizing Python, R, SQL and Tableau.

TECHNICAL SKILLS

- Python, SQL, PostgreSQL, Tableau, R, PyTorch, TensorFlow, Keras, scikit-learn, JavaScript, React, Power BI, AWS, Excel

EXPERIENCE

Python & Data Analytics Tutor | Self-Employed | New York, NY **Aug. 2024 - Current**
- Assist students in understanding Python programming fundamentals
- Topics of instruction include syntax, data structures, control flow, algorithms, scripting, and EDA
- Introduce data analysis techniques using Jupyter Notebook, including data visualization with Matplotlib and data cleaning with pandas

Junior Fullstack Engineer | GigFinesse | New York, NY **June 2022 - July 2024**
- Utilized Python, pandas, NumPy, and SQL to transform raw data into structured formats, leveraging Tableau to create dashboards that visualize requested KPIs
- Deployed high-impact features using React, notably a comprehensive design overhaul resulting in a 40% increase in user engagement
- Created a reservation system for venues using Python, Django and AWS S3, streamlining the booking process

Data Analytics & Web Development Intern | Mia NYDC | New York, NY **July 2018 - Aug. 2019**
- Data wrangling, analysis, and visualization using Python to measure KPIs for an e-commerce brand
- Incorporated JavaScript, jQuery, HTML/CSS and Bootstrap to design and launch an e-commerce website, resulting in a 170% increase in digital sales with similar increases to CTRs and reductions in bounce rate
- Utilized Microsoft Excel and PowerPoint to analyze inventory and budgeting data, supporting informed marketing decisions

Research Assistant | Mount Sinai Hospital | New York, NY **May 2017 - Sept. 2018**
- Conducted meticulous data collection via EPIC for various health studies focused on Alzheimer's disease
- Performed exploratory data analysis (EDA) and data visualization to analyze healthcare data

ACHIEVEMENTS

Hackathon Finalist (3rd Place) | The Merge *(Sponsored by Clever Guerilla)* | New York, NY **Dec 2024**
- Co-created PlateShare, a React Native mobile application leveraging Clever Guerilla's Causality NFC middleware to distribute prepaid meal-cards, enabling restaurants and community organizations to efficiently provide meals to individuals in need while developing open-source NFC software

EDUCATION

Eastern University | Saint Davids, PA **Aug. 2023 - Current**
Master of Science (M.S.) | *Data Science*
- Completed Coursework: Data Analytics in R, Information Visualization, Database Management with SQL, Machine Learning Fundamentals, Applied Machine Learning

Burrell College of Osteopathic Medicine | Las Cruces, NM **July 2020 - Apr. 2022**
Doctor of Osteopathic Medicine (D.O.)
- President of Neurology Student Organization

New York University | New York, NY **Sept. 2015 - May 2019**
Bachelor of Arts (B.A.) | *Chemistry*