

SIMON AYTES

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EDUCATION

Lehman College, City University of New York

B.S. in Computer Science, Minor in Data Science. GPA 3.95/4.00.

August 2018 - December 2022

Class of 2022

PROFESSIONAL EXPERIENCE

Penta

Junior Data Scientist

New York, NY

September 2021 – Present

- Consulted with clients across industries undergoing transformation and change, addressing their concerns through data-driven approaches to problem solving
- Pioneered novel methods for analyzing NER results; improved data gathering and analysis time by 900%; deployed ML model for sentiment analysis with greater-than 80% accuracy
- Refactored an existing process' code base, increasing efficiency of a core business function by 70%

Wall Street Journal

Journo-Tech Fellow

New York, NY

August – December 2021

- Designed a machine learning model to predict an article's unique page-views based on its headline
- Utilized structured data from WSJ's databases to train the model, tested on real-time data
- Wrote and optimized SQL queries to segment data from existing databases, optimizing data pipeline

NASA Langley Research Center

AR/VR Solutions Development Intern

Hampton, VA

June 2020 - August 2021

- Designed and developed an applied data-engineering tool in virtual reality using Unreal Engine
- Collaborated with 4 other team members to co-author a conference paper
- Conducted interviews with 19 stakeholders to guide the creation of user-centered design heuristics
- Researched and developed novel 3-dimensional data visualization techniques in virtual reality

RESEARCH EXPERIENCE

Lehman College, City University of New York

Data Science Research Intern

Remote

June - August 2021

- Teamed with 3 interns to automate the process of data extraction from PDF files using optical character recognition (OCR) with a minimum of 90% accuracy, aimed at addressing equity data accessibility
- Constructed a data set representing features derived from public health profiles of New York City's 59 districts as identified by project stakeholders

PUBLICATIONS

Sarah M. Lehman, Newton H. Campbell, Simon A. Aytes, Mitchell Kirshner, and Anthony Arviola. "EnDEV: An Environment for Data Engineering in Virtual Reality". (*Under submission*).

SKILLS

Computer Languages

Python, R, SQL, C#, C++, Git

Software

Jupyter Notebooks, Excel, Google Workspace, RStudio

Spoken Languages

English (Native); German (Proficient); Chinese (Elementary)