SIMON AYTES

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) *Seoul, South Korea*
M.S. in Artificial Intelligence. *Class of 2026*
Researcher at MLAI Lab. Advisor: Prof. Sung Ju Hwang.

Lehman College, City University of New York *New York, NY*
Bachelor of Science in Computer Science *Class of 2022*
Cumulative GPA: 3.9/4.0; *summa cum laude*

PROFESSIONAL EXPERIENCE

Penta Group New York, NY
Data Scientist *September 2021 – February 2024*

· Developed an industry-first social listening tool targeting TikTok, utilizing AI-based machine transcription and topic-modeling algorithms to extract and track themes of conversation.
· Created and deployed a web-based solution to deliver analytical tools developed in Python to analysts; implemented interactive dashboards and enabled seamless data exploration and analysis.
· Pioneered novel analysis and data mining techniques for various media streams, including both traditional news media and social media content.

Wall Street Journal New York, NY
Journo-Tech Fellow *August 2021 – December 2021*

· Designed a machine learning model to predict an article's unique page views based on its headline, achieving a correlation coefficient of 0.85 with actual views.
· Utilized structured data from WSJ's databases to train the model and tested it on real-time data.
· Wrote and optimized SQL queries to segment data from existing databases, optimizing the data pipeline and reducing query response time by 50%.

NASA Langley Research Center Hampton, VA
Mixed-Reality Research Intern *August 2019 - August 2021*

· Designed and developed an applied data science VR application using Unity3D and Unreal Engine.
· Conducted stakeholder interviews to inform a user-centric development process.
· Conceptualized and developed a Virtual Reality prototype for data visualization and analysis.

PUBLICATIONS

Sarah M. Lehman, Newton H. Campbell, **Simon A. Aytes**, Mitchell Kirshner, and Anthony Arviola. "EnDEVR: An Environment for Data Engineering in Virtual Reality." IEEE, 2021.

SKILLS

Programming Languages	Python, R, SQL, C#, C++, Git
Software	Jupyter Notebooks, Excel, Google Workspace, RStudio
Packages	Tensorflow, Scikit-Learn, Pandas, NLTK, Keras, Numpy
Spoken Languages	English (Native); German (Proficient); Korean (Elementary)