

Josef Schindler

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EDUCATION

Binghamton University, SUNY | Thomas J. Watson College of Engineering and Applied Science May 2024
Bachelor of Science in Computer Science **Cumulative GPA: 4.00/4.00**

TECHNICAL SKILLS

Languages & Libraries: Python, Java, C, C++, PySpark, Keras, Numpy, Pandas, Plotly, PySpark, SQL, AWS S3

Software & OS: Windows, iOS, Linux/Unix, Eclipse, Git, Databricks, Tableau, Snowflake, Docker, MSSQL

WORK EXPERIENCE

M Science New York, NY
Data Engineer September 2023 - Present

- Build and maintain end-to-end data pipelines for multiple e-mail receipt panels with over 5 billion rows to ingest, clean, tag, validate, and deliver data to clients via AWS S3 buckets and Tableau products using PySpark
- Design and integrate automated tagging and taxonomy systems using BERT-based classification models, LLM prompting, regex, and string normalization to eliminate 20,000+ hours of manual tagging annually
- Introduce coverage of direct-to-consumer merchant data by sourcing new receipt formats, validating data, and integrating into existing products covering gaming industry insight and user purchase behavior statistics
- Manage three-person offshore tagging team and all video-game related requests with data vendor

M Science New York, NY
Data Analyst Intern June 2023 – August 2023

- Utilized Random Forest Machine Learning Classifier to identify relevant games in current market using Principle Component Analysis to reduce features in heavily imbalanced dataset and threads to better distribute workload
- Co-engineered new product using custom algorithms to discover unknown name changes throughout dataset and performed Quality Assurance tests to verify the accuracy and consistency of data in final dashboard

Assessment Review Consultants Garden City, NY
Data Engineering Intern April 2020 – April 2023

- Updated and monitored data for thousands of clients and prepare financial data points for use in billing statements
- Implemented automatic data collection in Python using Pandas to validate and maintain MSSQL database

Department of Computer Science Binghamton, NY
Course Assistant for Data Structures and Algorithms, Intro to Python August 2021 - December 2022

- Prepared test-case files using Bash scripts to help over 90 students automate testing coding assignments in C++
- Taught course lessons during office hours, providing individualized instruction and academic support to students

PROJECT EXPERIENCE

College Meal Plan Money Calculator West Hempstead, NY
Independent Developer September 2023 – December 2023

- Developed program in Python using Selenium and BeautifulSoup libraries to web-scrape student meal plan information to allow students to analyze and budget their meal spending dynamically
- Led five-person team to develop a Flask-based web interface which expands on data visualization

Efficient Tree Data Storage Binghamton, NY
Independent Programmer December 2022

- Created balanced AVL tree in C++ to compare insertion and search functionality with BST on various inputs
- Generated testing datasets by developing Bash scripts in Python using Numpy and displaying results with Plotly

First-Year Research Immersion Program Binghamton, NY
Image Acoustic Signal Analysis Stream (IASA) Researcher August 2020 - December 2021

- Created neural network in Python using Keras and Numpy that uses data from thousands of videos to generate a facial recognition system capable of distinguishing an authentic face from a digitally manipulated face
- Collaborated in a six-person team to examine algorithms using Convolutional Neural Networks (CNNs) and Support Vector Machines (SVMs) to determine the best methods for detecting deepfake videos

LEADERSHIP AND INVOLVEMENT

Association for Computing Machinery Binghamton, NY
President, Scribe December 2021 – May 2024

- Designed coding problems for sponsored coding competitions and presented technical workshops to 40 students
- Established semester projects, mentorship program, and volunteer work for TechWorks! non-profit organization