David A. Pogrebitskiy

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EDUCATION

Northeastern University, *Khoury College of Computer Sciences*, Boston, MA — **GPA: 3.97/4.00**
Candidate for Bachelor of Science in Data Science, Mathematics Minor — Expected May 2024

Relevant Coursework: Machine Learning 1, Data Visualization, Large-Scale Storage & Retrieval, Foundations of Data Science, Mathematics of Machine Learning, Linear Algebra, Multi-variable Calculus, Probability & Statistics

TECHNICAL SKILLS

Languages:	Python, C++, SQL, Java, HTML, JavaScript
Libraries/Frameworks:	pandas, NumPy, Scikit-learn, Tensorflow, Plotly, Flask, PySpark, D3.js
Databases:	MySQL, MongoDB, Elasticsearch, Airflow, Kafka, Redis, Neo4j, HDFS, Spark

EXPERIENCE

Automated Execution Analyst Co-op — Jul 2023 - Jan 2024
TD Cowen / TD Securities — *New York, NY*

- Utilized Python to create FIX Protocol message translators, enhancing in-house analytics capabilities and meeting client-specific requirements
- Developed a Plotly dashboard to enhance the interpretability of quantitative trading signals and facilitate analysis of order routing technology
- Produced monthly market reports for clients from intraday quote and trade data, employing Dremio and SQL for efficient data acquisition and analysis, ensuring timely and accurate distribution to clients

Data Science Teaching Assistant — Jan 2022 - Jun 2023
Khoury College of Computer Sciences — *Boston, MA*

- Conducted weekly office hours, offering personalized guidance to students in data science concepts
- Provided constructive feedback on assignments, improving learning outcomes and overall student performance

Data Engineering Intern — Jun 2022 - Aug 2022
Space CAMP — *Colorado Springs, CO*

- Designed and implemented data streams and current-state tables in Apache Kafka using KSQL to deliver reliable and accurate satellite and mission status updates to satellite operators
- Developed an API in Python for transforming table or stream output from Kafka into JSON format, enabling interaction between Python and Kafka for developers

PROJECTS

DaveML | *C++, Linear Algebra, Python* — Nov 2022

- Implemented ETL module and various regression techniques (linear, ridge, and logistic) using C++ and principles of Linear Algebra and Calculus, such as QR Factorization, Gradient Descent, and cost functions
- Enclosed functionality into a Python module using PyBind11 to enable users with easy experimentation

ReceipTrack | *Python, OpenCV, PyTesseract, Plotly* — Nov 2022

- Developed a Python module with OpenCV and PyTesseract to parse and extract information from images of receipts to aid in the analysis of spending behavior and personal finances

ACTIVITIES

Director of Technical Workshops | *Disrupt: The FinTech Initiative* — Sep 2022 - Apr 2023

- Developed and presented a comprehensive Python curriculum, covering topics from introductory programming to financial analysis and data manipulation using Pandas