David A. Pogrebitskiy

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EDUCATION

Northeastern University, Boston, MA **GPA: 3.95/4.00**
Candidate for Bachelor of Science in Data Science, Mathematics Minor Expected May 2024

Relevant Coursework: Machine Learning 1, Data Visualization, Large-Scale Storage & Retrieval, Mathematics of Machine Learning, Foundations of Data Science, 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, Kafka, Redis, Neo4j, Spark

EXPERIENCE

Incoming Automated Execution Co-op Jul 2023 - Dec 2023
TD Securities *New York, NY*

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 and API in Python for transforming table or stream output from Kafka into JSON format, enabling interaction between Python and Kafka for developers

Undergraduate Research Consultant Jan 2022 - May 2022
DATA Initiatve Research Lab *Boston, MA*

- Provided consulting services to Hub App, an event-planning app, on a team of four students
- Utilized user action data to conduct statistical analysis and data visualization to identify patterns in user journeys, uncovering key factors impact user retention and attrition

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

- Instructed 400+ students on key concepts in programming, data structures, and data analysis in Python
- Provided feedback on assignment to help students build skills in data programming, visualization, and analysis

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 easy experimentation with the models

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
- Constructed a dashboard with Plotly Dash, allowing users to upload receipts and view summary statistics and visualizations of trends and categorical breakdowns

ACTIVITIES

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

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