

Evan Dietrich

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EXPERIENCE

J.P. Morgan

New York, NY

Software Engineer, Global Algorithmic eTrading Group

Feb 2022 – Present

- Building highly performant, large-scale (> 10 million trades per day) pricing and order execution applications for flagship low-latency electronic trading system, enabling market making in fixed income products. (Python, C++)
- Developing an automated stress-testing framework that subjects electronic trading system to intensive volatility and trade volume, replacing week-long quarterly compliance procedure with half-hour runtime results. (Python)

Software Engineer Intern, Commodities Energy Team

Jun 2021 – Aug 2021

- Designed and engineered a markets web application, supporting ad-hoc order requests and generating risk simulations for commodities traders using the investment bank's Athena platform. (Python, TypeScript)
- Remodeled a data pipeline to streamline trade execution, improving order fulfillment speed by 3x. (Python)

Software Engineer Intern

Jun 2020 – Aug 2020

- Created and launched a mobile-first web app for real-time messaging and virtual appointment scheduling, supplying a nonprofit partner with a secure connection to 4500+ small-business clients. (Bootstrap, Django, SQL)

Slalom Consulting

Remote

Associate Consultant

Sep 2021 – Jan 2022

- Analyzed network architecture and deployed scalable, extendable, and maintainable full stack cloud infrastructure, facilitating a faultless migration of databases and services (> 1.4 million files) for client. (AWS)

Massachusetts Institute of Technology (MIT)

Cambridge, MA

Student Technical Researcher

Aug 2019 – April 2021

- Architected a data mining pipeline to extract high-level language features from hand and face movement in video, reducing unnecessary data usage by 28%. (NumPy, Python)
- Constructed a series of machine learning models for the translation of American Sign Language to English, which increased translation accuracy from 60% to 94% on a robust NLP lexicon of emergency phrases. ([Poster](#))

Software Engineer Intern, Lincoln Laboratory

May 2019 – Aug 2019

- Programmed and tested REST API, request-handler, and user interface of client-server system running calibration tests on lasercom terminals, replacing 3-week manual testing with 12-hour automation. (C++, MATLAB, [Poster](#))

EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. in Computer Science, online part-time; Specialization in Machine Learning

2022 (expected)

Tufts University

Medford, MA

B.S. in Computer Science, B.S. in Cognitive Brain Science; GPA: 3.76

May 2021

Awards: Edgar N. and Faith A. Johnson Scholarship, Dean's List

Select Coursework: AI, Algorithms, Data Structures, Machine Learning, NLP, Machine Structure & Assembly Language, Statistics, Linear Algebra, Discrete Math, Computer System Security, Programming Languages, Logic

PROJECTS

Loan Repayment Likelihood: Produced data analytics model leveraging financial records and performing sentiment analysis on client messages for early loan default warning and detection, winning J.P. Morgan's global hackathon.

Equitable Data Generation: Employed novel data mining and augmentation techniques to generate realistic fake data for use in adversarial neural networks, solving limitations of pre-existing databases and winning annual MIT I3C competition.

SKILLS

Languages: Python, C++, MATLAB, R, C, SQL, Java, HTML/CSS, TypeScript

Technologies/Frameworks: Agile, Pandas, NumPy, Jupyter, Git, Linux, AWS, Django, Flask, TensorFlow, Stata, Scikit-learn, Keras, React, Selenium