SETH CHATTERTON

Cambridge, MA

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT Cambridge, MA

Candidate for Master of Business Analytics, Operations Research Center, August 2024, GPA: 5.0/5.0 2023 – Present

- Coursework: Optimization, Machine Learning under an Optimization Lens, Analytics Lab, Analytics Edge
- Optimization Project: Last-mile delivery route planning for electric vehicles (Julia, Gurobi)
- Analytics Lab Project: Built an interpretable predictive model for hiring financial professionals at MassMutual (Python)
- Awards: Recipient of MIT Sloan Dean's Fellowship, a merit-based scholarship
- Activities: AI & ML Club, Global Security Tech Club

DARTMOUTH COLLEGE Hanover, NH

Bachelor of Engineering, Concentration in Computer Engineering, GPA: 3.8/4.0 2017 – 2020

Participated in the 3-2 collaborative program between Dartmouth and Bowdoin, earning two Bachelor's Degrees over 5 years

- Coursework: Deep Learning, Fourier Transforms, Digital Electronics, Control Theory, Mechatronics, Systems
- Capstone Project: Legislative prediction tool to determine the probability of bills passing in state and national legislatures
- Activities: Division 1 Varsity Rowing, Woodsmen's Team - competitive lumberjacking

BOWDOIN COLLEGE Brunswick, ME

Bachelor of Arts in Physics and Computer Science and Mathematics, cum laude, GPA: 3.9/4.0 2015 – 2019

- Coursework: Algorithms, Statistics, Statistical Physics, Artificial Intelligence, Databases, Networks, Linear Algebra
- Awards: Sarah and James Bowdoin Scholar, Bill Brown Distinguished Rower Award for team leadership

TECHNICAL SKILLS

- Python (pandas, NumPy, PyTorch, OpenCV, scikit-learn, Matplotlib), SQL, R, Julia, Java, C/C++, MATLAB, Excel

EXPERIENCE

MIT OPERATIONS RESEARCH CENTER Cambridge, MA

Research Assistant to Professor Dimitris Bertsimas 2023 – 2024

- Built a LLM system using GPT-4 for health insurance document understanding and financial information extraction in collaboration with a small Fintech company (Python, OpenAI)
- Reduced manual data entry work by 75%, and integrated new developments each week based on literature reviews

SAGE ANALYSIS GROUP Boston, MA

Consultant (promoted from Consultant Analyst 2023, promoted from Analyst in 2021) 2020 – 2023

- Prototyped event detection system for Next Generation 911 emergency video calls for first responders in Pytorch & OpenCV
- Created an aircraft sustainment simulation in R for client with large fleet of aircraft to model future completion of maintenance and upgrades, identifying multiple unforeseen bottlenecks
- Increased headcount 25% by leading Sage's recruiting efforts through interviews, career fairs and onboarding new hires
- Developed computer vision algorithm for detecting and flagging abandoned objects in high-traffic areas with OpenCV
- Analyzed messy equipment inventory datasets with pandas and scikit-learn, and presented exploratory findings in Tableau

CONSIDDR, INC Boston, MA

Software Engineering Intern, Search Engine Start-Up *Summer* 2019

- Developed core piece of Considdr's product, the Evidence Matcher, which identifies equivalent paraphrased information among returned search queries, increasing the quality of results the user sees
- Integrated recent developments in NLP to create predictive ML model using Tensorflow, Spacy, and Numpy
- Executed every stage from training in Google Cloud, to deployment on Neo4j graph database hosted on AWS

ADDITIONAL INFORMATION

- 3rd place, OpenAI Hackathon for Climate Change (2022); 3rd place, MIT Grand Hack (2020)
- Grua/O'Connell mini-grant award to present independent study research in Ireland (2018)
- U.S. Patent No. 10,118,670, a novel system for measuring tension in sailboat rigging (2016)
- Volunteer Elementary School Math Assistant (2015-2018), RoboCup Robotic Soccer Team (2015-2017)
- Interests: rowing, running, 3D printing, sci-fi, sailing