MAX S. POFF

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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 2025, GPA: 5.0/5.0 — 2024 - Present

- **Coursework:** Deep Learning, Computer Vision, Machine Learning, Optimization Methods, Advanced Analytics Edge
- **Deep learning course project**: Built and compared various multimodal models integrating vision-language embeddings with tabular data to predict house prices, incorporating subjective visual factors like curb appeal (Python, PyTorch)
- **GenAI Lab project:** Building an agentic AI workflow for Wayfair to autonomously navigate their website and assess UX
- **Analytics Lab project:** Analyzed 2M+ social media posts to cluster user communities based on semantic similarity
- **Optimization project**: Designed robust model for investment portfolio, balancing value, risk, and diversification constraints
- **Clubs:** MIT Sundai Club (sundai.club) | **Leadership**: Student Director of Class Video

GEORGIA INSTITUTE OF TECHNOLOGY — Atlanta, GA
Bachelor of Science in Mechanical Engineering, GPA: 4.0/4.0 — 2016 - 2020

- Hong Kong University of Science and Technology (Spring 2018)
- Georgia Tech Lorraine (Metz, France) (Summer 2017)

TECHNICAL SKILLS

- **Analytics**: Python, R, SQL, PyTorch, TensorFlow, Keras, Scikit-Learn, XGBoost, NLP, Computer Vision, LangChain
- **Optimization:** Julia, JuMP, Gurobi, Mixed-Integer Programming (MIP), Robust Optimization
- **Software Engineering:** Git, FastAPI, React, Next.js, Node.js, Docker, Vercel, Render
- **Manufacturing**: Continuous Improvement, Integrated Work Systems, Lean Manufacturing, Statistical Process Control, RCA

EXPERIENCE

LINEWISE (YC X25) & STACK-AI (YC W23) — Cambridge, MA
Part-Time Contractor — Spring – Summer 2025

- Collaborating with LineWise (AI for manufacturing) on product to find product-market fit ahead of YC acceptance
- Supporting Stack-AI as deployed engineer, partnering with enterprise clients and developing new product features

MIT SLOAN OPERATIONS RESEARCH CENTER — Cambridge, MA
Graduate Researcher, Advised by Professor Alexander Jacquillat — Spring 2025

- Modeling flight-to-gate assignments for Singapore Changi Airport (Python, Julia, JuMP, Gurobi)
- Developing scalable optimization algorithms to minimize walking distance for passengers with tight connections

TESLA, INC — Austin, TX
P2 Process Engineer — 2023 - 2024

- Improved equipment effectiveness across 32 winders to produce Tesla's 4680 tabless battery cell for Model Y and Cybertruck
- Automated operational workflows with Python scripting and made production insights using SQL queries and JMP analysis
- Received SPOT award for leading step change in process capability for critical quality parameters

PROCTER & GAMBLE — Boston, MA
Line Leader and Process Engineer — 2020 - 2023

- Managed production team of 32 technicians to deliver over four million blade assemblies daily for Gillette products
- Developed 90-day plans using production data to address top gaps in performance leading to record low unplanned downtime
- Headed a cross-functional focus team to deliver record equipment reliability results translating to $250k annual cost savings
- Led department through a digital transformation to enable use of production data analytics to guide PDCA cycles
- Received CEO award (bonus given to top 5% of employees annually)

GEORGIA INSTITUTE OF TECHNOLOGY — Atlanta, GA
Linear Algebra / Calculus Teacher's Assistant — 2017 - 2020

- Received 2020 Georgia Tech Institute-wide TA of the Year Award
- Created YouTube channel STEM Support with total views > 2.7 million
- Rated 4.9/5 averaged across 12 metrics from 28 students; metrics include 'Stimulated Interest', 'Overall Effectiveness'

ADDITIONAL INFORMATION

- Intermediate fluency in Spanish
- Interests: Newport marathon finisher, juggling (IJA silver medalist)