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202 W 83rd St, 4F
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OBJECTIVE: Program Manager for Machine learning / data science team in a tech-for-good startup

AWARDS

- Winner, \$100k prize for Citadel/Correlation One Data Open Championship, November 2017
 - Winner, Wanxiang Global Blockchain Challenge for blockchain-based energy market, September 2017
 - National Science Foundation Graduate Research Fellow
 - National Science Foundation Innovation Corps awardee
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PROFESSIONAL EXPERIENCE

- Teza Technologies, Portfolio Manager; Quantitative Researcher 2018-Present
 - Portfolio Manager for \$150M in assets returning ~10% annualized with fully systematic algorithms powered by statistical and deep learning models using market and alternative data
 - Oversee real-time software operations and test-driven development process (Python stack)
 - Managed team of 3 PhD researchers developing new signals, including hiring/firing
 - Machine learning research for intraday equity portfolio with \$1B GMV
 - UC Berkeley, PhD Student 2013-2018
 - Convex optimization applied to sizing, siting, and bidding of energy resources
 - Electricity price forecasting using machine learning tools
 - Secure decentralized optimization using blockchains
 - Data Science Consultant 2016-2018
 - Improved regional real estate market forecast by 60%, Opendoor
 - Developing questions for Quantitative Vetting Platform, Correlation One
 - Thinkstep AG, Technical Lead, North American Electronics Practice 2009-2013
 - Managed team of 4 researchers across 3 international offices
 - Olin College, Product Design Laboratory manager 2007-2008
 - Porsche AG, Chassis Design Intern 2006
 - Singapore Polytechnic, Humanoid Robotics Engineering Intern 2005
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PUBLICATIONS

- “Cybersecurity in Distributed and Fully-Decentralized Optimization: Distortions, Noise Injection, and ADMM” (Munsing, Moura) arxiv.org 2018
- “Data-driven Chance-constrained Regulation Capacity Offering for Distributed Energy Resources” (Zhang, Hu, Munsing, Moura, Song) IEEE Transactions on Smart Grid 2018
- “Optimal Sizing and Dispatch of Transmission-Scale Storage Systems” (Munsing, Berger, Moura) Applied Energy (in review)
- “Flexibility Estimation in Consumer Electricity Consumption”, (LeFloch, Munsing, Moura) Applied Energy (*whitepaper*)
- “Blockchain Microgrids: Decentralized Optimization and Energy Markets” (Munsing, Mather, Moura) Conference on Control Technology and Applications 2017

- “Robust Cournot-Bertrand Equilibria in Power Networks” (Mather, Munsing) American Controls Conference 2017
- “Optimal Design of Dual-Reservoir Energy Storage System Through Particle Swarm Optimization”, (2016) PowerMEMS Conference
- “A Modular Approach to LCA: The Process and Results Applied to Hewlett-Packard’s Imaging Products” (Etheridge, Koffler, Munsing) ACLCA Conference 2013
- “Cutting the Costs of LCA: The Case of Laser Printers” (Lodal, Munsing, Saraev) ACLCA Conference 2012
- “Developments in Impact Assessment Tools for the Electronics Industry” (Munsing, Herrmann, Canepa) ACLCA Conference 2010
- Cover Editor, Journal of Industrial Ecology, 2012-2014

EDUCATIONAL BACKGROUND

- PhD in Civil & Environmental Engineering, UC Berkeley 2013-2018
- B.S. in Mechanical Engineering, F.W. Olin College of Engineering 2008

ENTREPRENEURSHIP

- Co-Founder, Advisor, EcalCharge.com 2017
- Founder, ski binding equipment maker, Switchskis.com 2016
- Co-Founder, full-stack developer, Mycarbonoffsetter.com 2016

LEADERSHIP & COMMUNITY ENGAGEMENT

- American Alpine Club, New York Chapter Board Member 2018-Present
- Departmental Liaison, Berkeley Energy and Resources Collaborative 2014-2018
- Organizing Member, GreenerMind Summit 2014-2016
- Alumni Board Member, StartingBloc Institute for Social Innovation 2011-2013

POSITION-SPECIFIC SKILLS

- Machine Learning / Data Science, Convex Optimization, and Optimal Control algorithms
- Python: Scientific Computing, data science, and web development stack
- Team leadership, project management, technical sales, and account management.
- Matlab: Control & Optimization workflow; convex and nonlinear optimization
- R, Javascript, PostgreSQL, functional proficiency

OTHER

- Fluent in German (spoken and writing), beginning comprehension in Russian (spoken and writing)
- Backpacked the Pacific Crest Trail, a 2700-mile hike from Mexico to Canada
- Organized and led a mountaineering expedition to climb Denali (Mt. McKinley)