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OBJECTIVE: Cross-functional leadership to design, develop, and deliver cutting-edge production ML tools

WORK EXPERIENCE

- Portfolio Manager; Research Team Lead *Teza Capital Management* 2018-Present
 - Research, develop, and deploy statistical and ML forecasting models in a Python + Java stack
 - Generate ~\$10M annual profit on \$100M in assets using automated prediction algorithms
 - Manage research team, define research agenda, present to executives and investors, hiring/firing
- PhD Graduate Student Researcher *UC Berkeley* 2013 – 2018
 - Research privacy-preserving optimization techniques for federated machine learning
 - Model optimal/strategic bidding of energy storage systems in constrained electricity markets
 - Predict electricity demand using machine learning techniques
- Lead Consultant, Electronics Business Unit *Sphera/Thinkstep* 2008 – 2013
 - Developed environmental reporting tools with client product development and executive teams
 - Manage client relationships and conduct technical sales meetings with prospective clients
 - Manage internationally distributed consulting team

HIGHLIGHTED AWARDS & PAPERS

- Winner, Citadel / Correlation One International Data Open Championships 2017
- Winner, Wanxiang Global Blockchain Challenge 2017
- National Science Foundation Graduate Research Fellowship recipient 2015-2018
- Devcon 3 technical talk, “Using Ethereum for Secure Decentralized Optimization” 2017
- “Blockchain Microgrids: Decentralized Optimization & Energy Markets,” 400 citations 2017

POSITION-SPECIFIC SKILLS

- Full-stack Python developer with emphasis on Machine Learning, Data Science, and Web Development
- Git, Unix, AWS, and CI/CD software design workflows
- SQL, PostgreSQL, Solidity/Ethereum, R, Javascript: functional proficiency
- Team leadership incl hiring/firing, project management, technical sales, and account management

EDUCATION

- PhD, M.S. in Civil & Environmental Engineering, UC Berkeley 2013-2018
- B.S. in Mechanical Engineering, F.W. Olin College of Engineering 2004-2008

OTHER

- Founding team on small startups:
 - ECalCharge electric vehicle smart charging startup, technical lead 2017-2018
 - MyCarbonOffsetter.com, technical co-founder 2016-2017
 - Switchskis.com, founder and provisional patent holder 2015-2016
- Hiked the Pacific Crest Trail from Mexico to Canada
- Current volunteer and community activities:
 - Lead 50+ volunteers in a weekly neighborhood cleanup at Manny’s Community Center
 - Co-producer for the Daybreaker 500-person quarterly dance party
 - Organizing committee, GreenerMind Summit annual unconference