Michael Shaughnessy

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Skills: AWS, Linux, Python, SQL, ML/AI, Machine Learning, Data Engineering, Distributed Systems

EXPERIENCE

EAPERICINGE	
Co-founder, The Mithril Company	July 2024 - Present
Developed RSX Protocol for monetizing remnant robot labor	
 Created COBRA digital countermeasures security suite 	
Technical Fellow, VDX.tv	April 2019 - July 2024
 Developed ML models for automated decision-making and identity resolution 	
 Built and operated data platform for end-to-end model training handling billions of requests 	
 Benchmarked RTB, identity and location data for ML targeting system 	
Machine Learning Team Lead, AppThis, LLC (Acquired 2018)	2016 - 2019
 Increased revenue/profit 30% through automated routing of mobile app install traffic 	
 Built prediction API handling 600M+ requests/day with <50ms latency 	
 Implemented multi-armed bandit/reinforcement learning for model selection 	
VP of Engineering, Leap Year Technologies	2015
 Defined and implemented differentially private data analytics algorithms 	
Delivered proof-of-concept software to enterprise customers	
Data Scientist/Engineer, RTBiQ, Inc	2014 - 2015
 Deployed ML system for RTB advertising that reduced costs by 50% and identified fraud 	
R&D Engineer, Synopsys TCAD	2013 - 2014
 Integrated quantum mechanical methods into TCAD software for III-V semiconductor simulat 	ion
Postdoctoral Researcher, Sandia National Labs	2011 - 2013
• Supported nuclear reliability missions through ML, molecular dynamics, and electronic struct	ure calculations
Lawrence Scholar, Lawrence Livermore National Lab	2009 - 2011
 Identified new magnetic alloys for permanent magnet and spintronic applications 	
EDUCATION	
PhD, Physics, University of California, Davis	2011
Electronic and Magnetic Structure in Doped Semiconductors	
BS, Agricultural and Biological Engineering, Cornell University	2004

PATENTS & PUBLICATIONS

9 Patents including: Differentially private processing (US 20170126694 A1), Adaptive Parallelization for Multi-Scale Simulation, First Principles Design Automation Tool, DFT simulation methods

15+ Publications in *Physical Review B*, *Journal of Applied Physics*, *Applied Physics Letters*, *Nanotechnology*, *Biomaterials*, and other peer-reviewed journals (2008-2016)