AMIT SHAVIT, PhD

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SUMMARY

Data science and AI leader with 10+ years of experience building and deploying machine learning and GenAI solutions in production environments. Currently leading dual teams of software engineers and PhD-level applied AI engineers. Proven track record translating research into deployed products that drive measurable business impact. Strong expertise in leadership, team building, communication, and technical execution across the full AI & ML lifecycle.

EDUCATION

University of Pennsylvania • Philadelphia, PA
Ph.D. in Chemical and Biomolecular Engineering│2015
Focus: High performance computing and modeling complex systems using Python, C & C++

University of Massachusetts Amherst • Amherst, MA
B.S. in Chemical Engineering with a minor in Chemistry│2010
Graduated summa cum laude

PROFESSIONAL EXPERIENCE

Fidelity Investments • Boston, MA • 2018 – Present

VP, GenAI Technology│April 2025 – Present
- Leading two teams: a team of software engineers and a team of PhD-level applied AI engineers
- Driving GenAI strategy, roadmap, and implementation across asset management verticals (Equity, Fixed Income, Strategic Advisors, High Income)

VP, Data Science│July 2021 – April 2025
- Built and led cross-functional team of researchers and engineers delivering production AI systems
- Deployed machine learning solutions that created measurable impact for asset management operations
- Managed multiple concurrent AI initiatives from research through production deployment

Principal Data Scientist│April 2018 – July 2021
- Developed and deployed ML models for asset management use cases
- Established best practices for ML development and deployment workflows
- Translated cutting-edge AI research into production systems that enhance investment decision-making
- Collaborated with investment professionals to identify high-impact AI opportunities

Thomson Reuters • Boston, MA • 2015 – 2018

Senior Data Scientist│January 2018 – April 2018
Data Scientist│August 2015 – January 2018
Thomson Reuters Labs
- Executed projects spanning the full data science spectrum: ETL, analytics, model development, and inference
- Developed natural language processing models and methods in the fields of Finance and Legal
- Worked on and filed **four patents** in machine learning and NLP
- Co-organized two CoderDojo events promoting coding education for children ages 7-17

University of Pennsylvania • Philadelphia, PA • 2010 – 2015

PhD Candidate & Researcher│September 2010 – August 2015
- Developed high-performance computing applications using C/C++, Python, CUDA, and parallelization on supercomputers
- Published **five first-author papers** in peer-reviewed journals

- Presented research at **17 conferences and symposia** (local and national)
- Served as co-president of graduate student symposium, increasing attendance by 50%

TECHNICAL SKILLS

Languages & Core: Python, SQL, C/C++, HTML/CSS/JavaScript
AI/ML Stack: PyTorch, GenAI/LLMs, Machine Learning, NLP
Tools & Platforms: Linux, Git, Flask, Celery, Airflow, CUDA, High Performance Computing
Expertise: ML deployment, production systems, team leadership, communication, research translation

PATENTS

- Patent #11195135 B2 (Granted Dec 2021) - Energy company ranking methodology
- Patent #10951643 (Granted Mar 2021) - IoT device detection system
- Provisional Patent #62/829,076 (Filed Jan 2019) - ML-based stock selection
- Provisional Patent #62/595,193 (Filed Dec 2017) - Abstractive text summarization

U.S. Citizen