DANIEL BONDI

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AI & ML Engineer with experience building production-grade machine learning systems, large-scale data pipelines, and end-to-end AI applications. Demonstrates success designing novel algorithms, operationalizing models in cloud environments, and leading engineering teams.

Professional Experience

AI Engineer / Technical Lead, Best Egg
Wilmington, DE • 2025 – Present

- Architected and deployed company's first **large-scale RAG platform** for natural-language retrieval across Snowflake, documentation, and enterprise definitions, becoming most-used internal AI product and translation layer for other company AI systems
- Delivered AI resume-screening application achieving **90% reduction in manual review workload**
- Led team of 5 engineers developing AI-driven BI analytics agents eliminating SQL/schema knowledge requirements

Data Scientist – Credit Modeling
2024

- Designed **novel cash-flow-based creditworthiness model** using advanced feature engineering, delivering **highest-performing predictive model in product history**
- Leveraged software engineering expertise to accelerate data pipeline development, achieving **record-time model deployment**
- Pioneered **first-in-company AI methodology** for cash-flow analysis, establishing reusable ML framework for future analytics

Lead Software Engineer
2021 – 2024

- Led development of fraud detection service achieving **95% latency reduction** with improved accuracy using Neptune graph database
- Implemented A/B testing pipelines and modernized core microservices, reducing production errors
- Led initiative to migrate legacy decision logic to new decision engine for credit card product

Software Test Engineer Intern, Vertex Inc.
King of Prussia, PA • 2018, 2019

- Increased code coverage by 30% and built 80% of API testing suite for eCommerce tax platform
- Developed Python debugging script for Robot Framework, improving QA team productivity

Education

University of Texas at Austin • Master of Data Science • GPA: 3.9 *2025*

University of Wisconsin – Madison • B.S. Computer Science & B.S. Mathematics *2020*

Projects

High-Performance Mathematical Computing Library

- Optimized a computationally intensive integer relation detection algorithm (PSLQ) used in number theory research, originally implemented in 26,000 lines of Fortran (MPFUN2020) by Lawrence Berkeley National Laboratory
- Rewrote the system in 2,500 lines of C, replacing Fortran with faster arithmetic libraries, novel search strategies, and parallelized computation, achieving up to 24× speedup on the most computationally intensive problem sets

AI Event Aggregator

- Built a fully automated pipeline scraping restaurant and venue websites and Instagram accounts, using AI vision-to-text, LLM summarization, and deduplication to produce structured event data with zero human input
- Designed a 15-step scheduled system on AWS for discovery, classification, extraction, and data cleaning — running on 600+ Philadelphia venues

Technical Skills

Programming Languages: Python, Java (Spring Boot), React, Node.js

Machine Learning & Data Science: scikit-learn, TensorFlow, PyTorch, NumPy, Pandas

Cloud & Infrastructure: AWS, Docker, Kubernetes, CI/CD pipelines, microservices, Kafka

Databases: Snowflake, PostgreSQL, MongoDB