Jared Corduan

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SUMMARY

Mathematician and software engineer. PhD in mathematical logic, with industry experience in formal methods and distributed systems.

INDUSTRY EXPERIENCE

Stealth Startup — Staff AI Scientist
October 2025 – Present

- TODO

BigBear.ai — Senior Software Engineer
July 2023 – October 2025

- Architected configuration-driven ML orchestration system for edge deployment across distributed nodes (drones, vehicles, command centers)

Input Output Global — Formal Methods Engineer
May 2018 – July 2023

- Led formal specification design for Cardano blockchain ledger alongside Haskell implementation
- Collaborated with academic researchers to align protocol with peer-reviewed requirements
- Managed team of 6 developers; served as open source maintainer and community point of contact
- Work publicly available at github.com/IntersectMBO/cardano-ledger

PokitDok — Software Engineer
November 2015 – May 2018

- Designed identity management system connecting patients, hospitals, insurers, and manufacturers
- Built key recovery mechanism and data provenance system for consumer-owned health data
- Developed REST APIs for real-time pharmacy coverage, plan information, and medical eligibility

Born Capital — Software Engineer
June 2011 – November 2015

- Built internal order matching system for commodities trading platform

EDUCATION

Dartmouth College — Ph.D., Mathematics (Logic)	2011
Grinnell College — B.A., Mathematics	2002

SKILLS

Languages: Haskell, Python, C++, Lean
Technologies: MLFlow, Kafka, NATS, FastAPI, Docker, Prometheus, Redis, Elasticsearch, QuickCheck
Domains: Formal methods, property-based testing, distributed systems, blockchain, ML infrastructure

ACADEMIC PUBLICATIONS

Ph.D. dissertation in computability theory, combinatorics, and mathematical logic. Three peer-reviewed papers in *Notre Dame Journal of Formal Logic* (2012, 2015) and *Journal of Symbolic Logic* (2010).

TEACHING EXPERIENCE

Dartmouth College & U. of S. Carolina — Instructor/TA	2003 – 2011

Primary instructor for Calculus, Discrete Math, and Group Theory. TA for 8 courses.