

# Jared Corduan

[jaredcorduan.github.io](https://jaredcorduan.github.io) · [jaredcorduan@gmail.com](mailto:jaredcorduan@gmail.com) · Charleston, SC

Updated: January 18, 2026

---

## 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](https://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.