Nate Rush

I am a CEO/CTO who has spent the past five years scaling my startup↗ from zero to $400,000 ARR. I'm passionate about software engineering because I love writing code. I'm dedicated to product design because I want my code to impact real-people in the real-world. I'm shifting my focus to building reliable and controllable AI systems.

🌐 naterush.io │ ✉ naterush1997@gmail.com │ 🐙 Github │ in LinkedIn

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Experience

Mito
CEO, CTO
July 2019 - Present
San Francisco, CA

- Founded and scaled AI-enabled product to $400,00 in annual recurring revenue.
- Led product development process by conducting hundreds of user interviews, designing user flows, and creating feature mock-ups in Figma.
- Implemented new features, including architectural design, prototyping, production implementation, testing, and deployment.
- Raised seed round of 1.7M dollars, and completed Y Combinator batch S20.
- Supervised a team of engineers: recruited two co-founders, and hired an engineer.
- Grew our open-core product↗ to 2,200 Github stars.

Ethereum Foundation
Researcher
2017-2019
Zug, Switzerland

- Co-authored Correct-by-Construction Casper↗ paper, introducing a novel family proof-of-stake compatible consensus algorithms.
- Collaborated with small team of ~10 researchers on proof-of-stake, which Ethereum mainnet transitioned to in 2022.

Education

University of Pennsylvania
Jerome Fisher Program in Management and Technology
2016-2021

- B.S.E. in Computer Science, School of Engineering, Summa Cum Laude.
- B.S. in Economics (Concentration in Legal Studies), Wharton, Summa Cum Laude.
- Co-founded the Penn Blockchain Club.
- Taught the first (informal) blockchain course at Penn to over 100 students.

AI Safety Camp
2022

- Experimented↗ with extending a standard RL model to include memetic theory, providing insights on dynamic agents and alignment challenges.
- Presented↗ investigations on memetic theory and AI alignment, collaborating with two other campers under mentor Daniel Kokotajlo.

Technologies & Skills

Languages
Python • Expert   TypeScript/JavaScript • Expert   CSS • Advanced   Go • Intermediate

Technologies
Git, AWS, SQL, Github Actions, CI/CD, Excel, Docker/Kuberenetes • Intermediate

Product
Product management, Figma, User research and testing, Product analytics

Other
Data structures and algorithms, Project management

Project: Mito AI

- Designed, implemented, and deployed a chat interface for data manipulation↗ within a spreadsheet, integrating OpenAI APIs.
- Safety focus: implements novel reconciliation functionality↗ into the spreadsheet, allowing non-technical users to verify that AI generated code is correct.
- Launched as most impactful new feature at Mito, including a front-page appearance on Product Hunt↗ and HackerNews↗.