Quinn Dougherty

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EXPERIENCE

Casper Association — *Research Engineer*

February 2023 - PRESENT

Figuring out how research fits into product, prototyping novel QA procedures, applied zero knowledge. Rust, Lean4, Nix CI, model checking

Quantified Uncertainty Research Institute— *Software Engineer*

March 2022 - February 2023

Programming language engineering for a web-first probability language. rescript, typescript

Platonic Systems — *Logician, audits*

July 2021 - March 2022

Prototyping formal verification strategies for Cardano smart contracts. haskell, [coq](coq), communications

Sandbox Banking — *Software Engineer*

April 2020 - December 2020

Gluing a trillion banktech APIs together. Python, Javascript, Linux/AWS

EDUCATION

Bloom Tech — *Data Science Bootcamp*

November 2018 - November 2019

Statistics and software engineering. Time there included working as a manager of teaching assistants and as a teaching assistant

Community College of Philadelphia — *Math Coursework*

September 2016 - May 2018

Calculus, discrete math, linear algebra, differential equations, java programming. Time there included working as a tutor for the whole math department.

SKILLS

Proof assistants

Functional programming

Nix builds and linux admin

Formalization & prototyping

Model checking

Basic machine learning

Publications/Projects

[Solving a bottleneck in the RL shielding literature (*underway*)](Solving a bottleneck in the RL shielding literature)

Executing Finance in Metric Temporal Logic

Cooperation in multi-agent reinforcement learning

[Social Media Analysis Toolkit *in* Workshop Proceedings of the 14th International AAAI Conference on Web and Social Media](Social Media Analysis Toolkit)

[Conceptions of Artificial Intelligence and Singularity *in* Information 2018](Conceptions of Artificial Intelligence and Singularity)

LANGUAGES

Coq, Lean, Python (torch, etc), Typescript, Haskell, OCaml, Nix, Bash, Rust