Please see https://cv.itscolby.com for the most detailed version of Colby Anderson's CV.

## **Industry Experience**

## **Product Manager at Subspace Labs**

Full-Time | 2023 - 2024 | 13 months

- I designed, spec'ed, and managed the development of 5 POCs, along with 2 MVPs.
- Designed an access layer for a blockchain-based file storage system, achieving enhanced performance and strengthened privacy through tailored protocols.
- Designed a new identity scheme, leveraging proof-of-personhood, augmented TLS sessions with MPC and ZKP, and blockchain-based verified credentials.
- Formalized security properties for the variations of proof-of-personhood.

#### **Lead Architect at Hence Labs**

Full-Time I 2022 I 6 months

- I collaboratively designed the architecture of an entire multi-chain network, produced over 100 pages of specs, and managed the development from concept to MVP.
- Meticulosuly spec'ed novel leader and leaderless consensus algorithms, hot and cold state management, message-passing, and much more—all with cutting edge industry standards.
- Collaborated on the design of the network topology, committee selection algorithm, and consensus protocols.
- Served as the face and voice of an 8 minute professionally produced marketing video.

### **Technical Consultant at Hence Labs**

Part-Time I 2022 I 3 months

- Informed the design of a multi-chain network and was promoted to a lead architect role.
- Contrasted the network economics, mechanism design, and execution environments of every major blockchain.

#### **Product Owner at MakerDAO**

Full-Time | 2022 - 2023 | 13 months

- Built and relased version 1 of the platform; it was then shortly acquired and repurposed by the operations-focused company Powerhouse.
- Development was always ahead of schedule, due to my ability to limit 'deleted features', refactors, and other technical debt.

#### **Technical Consultant at MakerDAO**

#### Part-Time I 2021 I 3 months

- Designed, developed, and benchmarked an on-chain POC for range polling that mitigated tactical voting.
- Researched and benchmarked the various range polling protocols and defined various attacks against each one.

# **Academia Experience**

## **Teaching**

- 2024 Spring: Applied Cryptography
- 2023 Spring: The Basics of Cryptographic Systems
- 2021 Fall: Deep Learning
- 2021 Summer: Blockchains & Cryptocurrencies
- 2021 Spring: Modern Web and Mobile Applications

#### Research

- 2023 Spring: Optimizing Partially Blind Signatures
- 2022 Fall: Slippage in Automated Market Makers
- 2021 Spring: Stack Canaries in Multithreaded Programs
- 2021 8 months: Distributed Sorting with Big Data