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# Jonathan Becker

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## EDUCATION

**Indiana University Bloomington – Luddy School of Informatics, Computing, and Engineering**  
*Bachelor of Science in Computer Science*

May 2025

## PROFESSIONAL EXPERIENCE

**Shadow – New York, NY**

October 2023 – Present

*Founding Engineer - Backend*

- Responsible for designing and developing robust, production ready blockchain indexing solutions and data pipelines in rust.
- Shadow is a novel indexing protocol that leverages shadow events to enable enhanced onchain data indexing, analytics, and reduced gas costs through an offchain logging mechanism.
- The Shadow product sunset in May 2025, and the team pivoted to other consumer-facing applications.

**Chainalysis – New York, NY**

May 2023 – October 2023

*Software Engineer - Backend*

- Worked alongside industry professionals to design and develop enterprise-grade blockchain data solutions
- Collaborated with other engineers on the Data Intelligence team to refactor and optimize existing production codebases, allowing them to horizontally scale and handle increased traffic post-acquisition

**Transpose, Inc. – New York, NY**

April 2022 – May 2023

*Founding Engineer - Backend*

- Collaborated with peers to deliver enterprise-grade blockchain indexing and data solutions, supporting thousands of daily active users and driving value through cutting-edge technologies and teamwork
- Designed and developed an elegant frontend using Next.js, streamlining user experience and optimizing performance for seamless navigation and responsiveness
- Transpose was acquired by Chainalysis in May 2023

**Bubbles – Hamburg, Germany**

January 2022 – April 2022

*Frontend Developer Consultant*

- Deployed flagship pages to aid the discovery of projects in the crypto space
- Collaborated with peers to create, develop, review, and deploy elegant user-centric frontend solutions
- Developed engaging and responsive user interfaces using React, MongoDB, and SCSS, delivering high-quality frontend solutions and exceptional user experiences

**Vama – Singapore**

March 2022 – April 2022

*Research Consultant*

- Developed a proof-of-concept for using non-fungible tokens as keys to join exclusive groups, demonstrating an innovative application of NFTs for access control and community engagement

**RDE, Inc. – Arlington Heights, IL**

May 2020 – May 2021

*Software Engineering Intern*

- Designed and presented a fully responsive corporate site layout to board executives, effectively showcasing brand identity while addressing accessibility and user experience requirements
- Worked alongside peers to develop and deploy a fully functional corporate website, collaborating to deliver a seamless user experience and meet business objectives with precision and efficiency

**JBECKER DEVELOPMENT LLC – Itasca, IL**

September 2017 – Present

*Freelance Software Engineer*

- Designed, backtested, and developed an algorithmic trading program which automated the buying and selling of securities
- Designed and developed numerous full-stack web pages for clients worldwide, showcasing versatility and adaptability while meeting diverse requirements and delivering exceptional user experiences

## OPEN SOURCE WORK

**Heimdall-rs**

<https://github.com/Jon-Becker/heimdall-rs>

- Highly renowned EVM smart-contract security toolkit with over 1300 stars and 20 contributors.
- Features EVM decompilation, arbitrary raw calldata decoding, transaction tracing, and control flow graph generation modules.
- Research for all non-trivial heimdall features, such as raw calldata decoding, can be found on my research page: <https://jbecker.dev/research>

## LEADERSHIP

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**Luddy Living Learning Center** – *Bloomington, IN*

*August 2021 – May 2022*

*Community Member*

- One of 150 students admitted to a highly selective organization tailored to careers in informatics, computing, and engineering

## PROFESSIONAL SKILLS, & INTERESTS

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**Professional Skills:** Rust, Python, Next.js, Node.js, Tailwind, React Native, Java, Solidity, Vyper, C, Redis, MongoDB, PostgreSQL, Firebase, AWS, GCP, Kubernetes, Pulumi, ArgoCD, Temporal, Ingest, DataDog

**Interests:** Security, Decentralization, Reverse Engineering, Artificial Intelligence, Traveling, Mythology, Swimming, Cooking, Lifting