

# Elliott Dehnbostel

## Resume

### ROLES

**Econia Labs:** 2023-Current (Remote)

#### *Senior Infrastructure Engineer*

Co-lead the development of an open-source back-end infrastructure supporting a decentralized exchange product from scratch. Researched and developed a new exchange protocol requiring novel algorithms and data-structures to maximize support for integration by other blockchain protocols. Delivered all on-time to design and specification.

**Meta:** 2021-2022 (Layoff) (Remote)

#### *Software Development Engineer*

Designed, delivered and validated at least \$2.5M in server capacity and wall-time savings. Added value to critical infrastructure with novel approaches, while ensuring service stability. Leveraged static analysis and code generation to surface new opportunities. Established detection & documentation necessary to prevent privacy-harming patterns from entering production, each of which would otherwise directly undermine current and future existential technical developments in privacy.

**Circle Financial:** 2020-2021 (Remote)

#### *Software Development Engineer*

Developed an automatic customer billing system as a replacement for the manual approach already in use. Worked with a wide variety of stakeholders such as Legal, Sales, Finance and Engineering. Achieved on-time production deployment by anticipating and designing for frequent changes to requirements, which provides the business with greater agility in growth-hacking endeavors.

**Garmin:** 2019-2020 (Kansas)

#### *Software Development Engineer*

Developed both a distributed API serving millions of smart watch users per day and its associated customer support tool. Doubled test coverage by contributing a rule-driven arbitrary data initialization framework, which reduced flakiness and maximized passive fuzz-testing. Contributed to onboarding and overall support of new engineers.

**Quantum Resistant Ledger:** 2017-2018 (Remote)

#### *Investor Liaison & Junior Engineer*

Achieved a peak project valuation of \$200M by communicating directly with investors on the development & overall value of a novel blockchain project leveraging quantum-resistant security. Contributed to system design, research, feature design, and security analysis. Found and resolved a catastrophic exploit using black-box security analysis techniques.

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### PRODUCTION EXPERIENCE

AREAS Blockchain Applications, Distributed Web Services, Performance & Efficiency Optimization, Scripting/Automation, Static Analysis, Code Generation, Mobile/Web Products & Internal Tools

TOOLS Version Control, Java, PHP/Hack, Python, Rust, Solidity, Dart, Memcached, SQL/NoSQL, GraphQL, JS/HTML/CSS, C++, C,  $\LaTeX$

### PERSONAL PROJECTS

2022 **lodis (link)**  
*Tiny Rust-based HTTP server framework wrapper that delivers process resilience and continuous integration with local compute resources.*

2021 **arbeit**  
*High-performance, distributed arbitrage bot built on Ethereum. Based on independent research and development.*

2020 **/u/lit.word.bot (link)**  
*Reddit bot which finds and defines rare, colorful words such as "Codger" and "Mahout." Top 2% bot by popularity.*

2019 **IMPULSE! - Are You Slow Enough? (link)**  
*Brain-bending game involving self-restraint as a challenge. Available on Google Play and GitHub.*

2018 **Solar Energy Production Forecast**  
*Utilized machine learning to forecast the production of energy by a real solar field based on actual historical weather and irradiance data.*

### EDUCATION

2014-2018  
GPA: 3.6 **The Ohio State University**  
COMP. SCI. & ENGINEERING  
*Artificial Intelligence Focus*

**IBM:** 2016 (Ohio), **Texas Instruments:** 2017 (Texas)  
*Software Development Internships*