Elliott Dehnbostel
Resume

ROLES

Econia Labs: 2023 (Remote)
Senior Infrastructure Engineer

Lead the development and delivery of an open-source back-end infrastructure supporting a decentralized exchange product from scratch. Wrote & reviewed code, participated in design decisions. Supported clients with APIs & SDKs, advisement, and other such help. Mentored junior engineers.

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	Distributed Web Services, Performance & Efficiency Optimization, Scripting/Automation, Static Analysis, Code Generation, Mobile/Web Products & Internal Tools, Blockchain Applications
TOOLS	Version Control, AWS/GCP, Python, Rust, Java, PHP/Hack, 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