

# Elliott Dehnbostel

## Resume

**Meta:** 2021-Now\* (Remote)

### *Performance & Efficiency Engineer*

Discovered, designed, delivered and validated at least 6,000 machines in server capacity savings along 1% in wall-time savings in the process, with more ongoing or collaborated on. Engaged with and added value to critical components of infrastructure via novel re-approaches, while ensuring the stability of services. Created new data-sets and analyses to surface opportunities, leveraging static-analytical and generative approaches where such an approach falls short. Established the effective detection & clear documentation necessary to stop new uses of reflection from entering production, each of which would otherwise directly undermine current and future existential technical developments in privacy among other things.

## PREVIOUS ROLES

**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.

**IBM:** 2016 (Ohio), **Texas Instruments:** 2017 (Texas)

### *Software Development Internships*

📍 New York City, New York 10011  
☎ +1 (513) 444 6906  
✉ [egd@msg.dev](mailto:egd@msg.dev)  
🔗 <https://github.com/elliottdehn>

## 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, PHP/Hack, Python, Memcached, NoSQL/GraphQL, MySQL, JS/HTML/CSS, Solidity, Java, Dart, C++, C,  $\LaTeX$

## PERSONAL PROJECTS

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?**  
*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.*

2018 **HomeCredit Mortgage Default Prediction**  
*Participated in Kaggle machine learning competition to predict how likely a customer is to default on their loan, given data about the person.*

## FORMAL EDUCATION

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