

# Elliott Dehnbostel

## Resume

**Meta:** 2021-Present (Remote)

### *Performance & Efficiency Engineer*

Discovered, designed, delivered and validated over \$5M in server capacity savings along 1% in wall-time savings in the process, with more ongoing or contributed to. 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 many 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  
☎ +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,  $\text{\LaTeX}$

## PERSONAL PROJECTS

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

2020 **/u/lit.word.bot (click here)**  
*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*