Damian Reiter

Software Engineering Student

Email: damian.reiter@gmail.com
Website: damian.bio

SKILLS

Languages: C, C++, TypeScript, JavaScript, Go, Python, SQL, Ruby, Java
Technologies: Git, Docker, gRPC, Node.js, Make, Rails, Kafka

EXPERIENCE

Citadel   New York City, NY
Software Engineer, *Electronic Trading Engineering*   *Aug 2023 - Present*
  · Currently building a new real-time trade reconciliation platform responsible for ensuring every trade flows through the front, middle, and back-office systems

Snowflake   San Mateo, CA
Software Engineer Intern, *Database Query Engine*   *Sept 2022 - Dec 2022*
  · Designed and implemented major optimizations to Snowflake's query engine, improving performance of `AND` expression evaluation by at least 2x on columns with $> 0.1\%$ null-skew, impacting millions of queries daily
  · Identified additional optimization opportunities in Snowflake's query engine and wrote technical design documents detailing proposed implementation options

BitGo   Palo Alto, CA
Software Engineer Intern, *Blockchain Engineering*   *Jan 2022 - Apr 2022*
  · Developed support for the Lightning Network protocol, allowing BitGo customers to make Bitcoin transactions with $> 99\%$ reduced fees and processing time
  · Maintained and developed Bitcoin-related improvements to BitGo's core wallet platform which processes over 20% of all Bitcoin transactions by value

Splunk   San Jose, CA
Software Engineer Intern, *Advanced Security Analytics*   *May 2021 - Aug 2021*
  · Performed research on modern data stream normalization techniques and delivered multiple presentations to greater team
  · Applied findings from research to design and develop new risk score normalization system, improving performance of key services and increasing product usability

Shopify   Toronto, ON
Data Science Intern, *International Data Science*   *Sept 2020 - Dec 2020*
  · Analyzed data to detect fraudulent usage patterns of Shopify, increasing accuracy of company-wide data analysis and improving product integrity

Shopify   Waterloo, ON
Data Science Intern, *Plus Data Science*   *Jan 2020 - Apr 2020*
  · Reduced complexity and improved ease of access to Shopify Plus billing and contract data by designing and developing a large-scale dimensional data model responsible for processing over 100M rows per day

PROJECTS

Beam   TypeScript + Go
  · Created a cross-platform, end-to-end encrypted, natively integrated file transfer application
  · Designed cryptosystem to support zero-knowledge encryption and allow trustless server operation
  · Implemented common Go library to maximize code reuse across desktop and mobile clients

EDUCATION

University of Waterloo   Waterloo, ON
B.SE in Honours Software Engineering, 4x Dean's Honours List, GPA: 90/100   *Sept 2018 - Apr 2023*