

William Tom

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[GitHub](#) | [LinkedIn](#) | [Blog](#)

EDUCATION

The University of Chicago

B.A. in Physics, B.S. in Mathematics

Physics GPA: 3.80/4.00; Cumulative GPA: 3.65/4.00

Chicago, IL

Expected, June 2025

EXPERIENCE

Assetnote

Engineering Intern

Remote

July 2023-Present

- Planned and developed a standalone service for out of band testing of blind SSRF vulnerabilities across several networking protocols, such as DNS, HTTPS, FTP, SMTP.
- Worked with Go and PostgreSQL, building database and security engine integrations to support SSRF validation at scale.

Offensive Security Engineer (Freelance)

Remote

November 2020-Present

- Reverse engineered industry-grade browser fingerprinting/anti-bot solutions, in particular applications of virtualization obfuscation, utilizing both dynamic and static methodologies.
- Identified vulnerabilities in companies such as Uber, Fastly, Walmart, and Amazon.

Eversify (Web3 Data Analytics, Startup Stage)

Co-founder, Chief Technology Officer

Chicago, IL

October 2021-June 2022

- Built the company's backend architecture using TypeScript while growing a team from one to five engineers, building sustainable codebases with minimal technical debt.
- Created platforms for consumer-facing web3 data analytics and gamified learning.
- Developed and pitched business, tech, and product strategies during the startup stage, securing funding and high-value partnerships. Interviewed twice for YCombinator.

Cicada AIO

Founder

Remote

November 2020-October

2021

- Founded an ecommerce automation company specializing in the development of sneaker bots and other automation tools for online retail.
- Successfully led a cross-functional team of 6 employees, overseeing automated transactions totaling several million dollars and managing thousands of dollars in Monthly Recurring Revenue (MRR).

PROJECTS

Blog | TypeScript, JavaScript

- Maintain my own blog as well as articles on [nulptrs](#), writing primarily about anti-bots, reverse engineering, and the current state of cybersecurity. Articles have been featured at the top of Hacker News and multiple newsletters, with posts reaching up to 30,000 unique visitors in the first 24 hours.
- Published a reverse engineering writeup, accompanied by open-source disassembler code available on GitHub.
- Writing a series reviewing common antibot vendors from an attacker's perspective, garnering significant attention from vendors in the space.

Bot Framework | Go

- Open sourced a bare-bones version of the client-side backend software used for Cicada AIO.
- Features custom networking and concurrency solutions written in Go to automate ecommerce in a performant and scalable manner.

EXTRACURRICULARS

University of Chicago Tea Club

Co-Founder & President

Chicago, IL

January 2021-Present

- Co-Founded and registered the official University of Chicago Tea Club, and assisted in the development of relevant offerings, such as a subscription tea box service, and biweekly tea study breaks for our ever-increasing base of members.

Skills: Go, NodeJS, TypeScript, JavaScript, Python, AWS, GCS, PostgreSQL, MongoDB, Burp Suite, Git/GitHub, reverse engineering, penetration testing. Strong understanding of networking protocols such as HTTP/2, TLS. Passionate about codebase architecture.