

David Teather

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EDUCATION

University of Wisconsin - Madison | GPA: 3.91/4.0

Madison, WI

Bachelor of Science in Computer Science, Minor in Entrepreneurship

May 2024

EXPERIENCE

CrowdStrike | *Go, AWS, CI/CD, Microservices, Docker*

May 2023 – Sep 2023

Software Engineering Intern

- Developed a **parser, lexer, and VM** for LogScale Query Language (**LQL**) to a custom efficient bytecode
- Designed a comprehensive **linter** tool to ensure code integrity and to catch bugs before deployment to the client
- Created a custom testing framework for LQL, integrating it into our CI/CD pipeline

Collab | *Apache Spark, Scala, Go, Docker*

May 2022 – May 2023

Software Engineering Intern, Backend

- Designed and implemented a high throughput ETL pipeline, handling over **1 billion** records
- Boosted request throughput by **450M** requests/day through creating an efficient **Go** based API abstraction
- Future-proofed processing jobs using **Apache Spark** in **Scala** enabling horizontal job scaling

Advent International Global Private Equity | *Python, Excel, Business Insights*

Jan 2022 – May 2022

Data Science Intern

- Developed a predictive model using ML in Python, decreasing cannibalization by **5%** across multiple stores
- Utilized web scraping and data mining techniques to estimate customer counts for various companies
- Analyzed large datasets using Python and Excel to uncover and illustrate trends and patterns for owned companies

Warner Music Group | *Ruby on Rails, React.js, SQL Optimization*

May 2021 – Sep 2021

Software Engineering Intern, Sodatone Platform, Full Stack

- Enabled deeper analysis of the industry by ingesting data from music charts and music-streaming platforms
- Increased developer productivity by creating an internal web tool for managing and viewing **Ruby Resque** jobs

PROJECTS

LinkedIn Learning Instructor | *GitHub Codespaces for Students*

Jan 2023 - May 2023

- Teamed up with **GitHub** and **LinkedIn Learning** to create a highly engaging, impactful course
- Empowered **1.4K+** learners to master GitHub Codespaces, enhancing their coding efficiency and productivity
- Further developed my instructional design during onsite recording sessions

TikTokAPI | *Python, Docker, Web Scraping, Git*

Sep 2019 – Present

- Engineered a popular open-source Python package to extract data from TikTok's website, with over **1.1M+** downloads and **4.1K+** GitHub stars
- Used extensively in the academic and corporate sectors, cited in **25+** academic papers from renowned institutions including **Yale, Northwestern, The United Nations**, and used by **500+** companies

The Response Times | *TheResponseTimes.com* | *Security Analysis, Security Research*

May 2022 – Present

- Conducted in-depth security analysis of **YikYak's** app, uncovering critical privacy vulnerabilities, prompting enhancements to user privacy (featured in **Vice** and **The Verge**)
- Increased user data security by identifying and addressing critical vulnerabilities in link.social's authorization tokens, protecting sensitive user data for **thousands of users** (email, phone number, locations, birthdays, etc)

ACHIEVEMENTS AND LEADERSHIP

MIT BattleCode 2024 Finalist (*Top 16*)

Jan 2024

MadHacks Fall 2023 | *Lead Organizer*

Fall 2023

- Organized a hackathon with **650+** applicants, **250+** attendees, **50+** projects submitted, and **10K+** in funding

Undergraduate Projects Lab Coordinator (UPL) | *Workshops, Talks, Mentorship*

May 2023 - Present

GitHub Campus Expert | *Leadership, Community Development*

Aug 2022 – Present

TECHNICAL SKILLS

Programming Languages: Python, Go, Scala, SQL, Ruby, C, TypeScript, JavaScript, HTML/CSS

Frameworks: Apache Spark, React, Node.js, Ruby on Rails

Infrastructure: Amazon AWS, Postgres (psql), Cassandra, Kafka, Elasticsearch, AWS Glue, AWS Athena, S3

Developer Tools: Git, Docker, GitHub Actions, GitHub Codespaces, Linux, Linters