

Tyler H. Lin

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Education

Georgia Institute of Technology | Atlanta, GA

Aug. 2021 – May 2024

Bachelor of Science in Computer Science

GPA 4.00

- **Coursework:** Data Structures and Algorithms, Computer Organization and Programming, Design and Analysis of Algorithms, Objects and Design, Computer Networking, Computer Animation, Database Systems

Skills

Languages: Java, Python, JavaScript (ES12), HTML, CSS, Ruby, Dart, SQL, Bash, PowerShell, L^AT_EX

Tools: Git, Spring Boot, Node.js, React, Ruby on Rails, Flutter, PostgreSQL, Docker, Linux, Splunk, Prometheus

Experience

JPMorgan Chase & Co. | Wilmington, DE

Jun. 2023 – Aug. 2023

Software Engineering Intern

- Refactored and redesigned the internal financial reporting portal using React and Spring Boot to support a micro-frontend architecture with a cohesive design, enabling more efficient firmwide quarterly financial reviews
- Migrated 10+ different financial applications to a common routing infrastructure and deployed to AWS

MathWorks | Natick, MA

May 2022 – Aug. 2022

Software Engineering Intern

- Instrumented the ThingSpeak IoT analytics platform with Prometheus metrics using Ruby to observe 30+ million API requests/day and visualized excess request trends using PromQL queries and Grafana
- Conceived and implemented logic changes for a Ruby on Rails API controller action that handles 300+ requests/sec., resulting in a 40% increase in max throughput and 70% decreases in p99 and max latencies


Georgia Tech Professional Education | Atlanta, GA

Jan. 2022 – May 2024

Application Development Student Assistant

- Engineered internal tools, debugged user-facing applications, and automated tasks using PowerShell and Python to help the Service Delivery team manage employee onboarding, class registration, and file stores

Projects

meetoo  | Dart, Flutter, PostgreSQL

2023 – Present

- iOS/Android app made using Flutter that streamlines the process of scheduling meetings with friends, classmates, or colleagues by using Google, iCloud, and Outlook calendar APIs to display users' availabilities
- Features an all-in-one calendar, meeting chats, and a friend system, all backed by a PostgreSQL database

Attendance for Google Meet™  | JavaScript, HTML, CSS, Material Design

2020 – 2023

- Open-source Google Chrome extension with over 30,000 users from more than 100 countries that automates attendance tracking in Google Meets by proxying internal Meet functions using JavaScript
- Integrates an accessible attendance interface into the Meet layout and exports organized logs to Google Sheets
- Awarded a Featured badge by the Google Chrome Web Store team for "follow[ing] [their] technical best practices and meet[ing] a high standard of user experience and design"

Leadership

Sports Performance Intelligence Platforms VIP  | Lead Developer

Jan. 2023 – May 2024

- Directed the development of a dynamic dashboard for Georgia Tech men's basketball coaches that aggregates athlete-specific performance metrics from drills and games to help optimize player conditioning and health
- Managed a team of 8 through 2-week-long sprints pursuing initiatives such as user authentication, API caching, and responsive data visualizations shaped by feedback from coaches and trainers