

# 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, Systems and Networks, Computer Graphics, Database Systems

## 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 – Present  
*Application Development Student Assistant*

- Transfer terabytes of data from file shares to Microsoft SharePoint libraries/lists using Bash and PowerShell
- Developed an app to expedite employee ramp-up by presenting onboarding checklists to employees and team progress to managers while integrating permissions and tasks with Office/Outlook using Microsoft Power Fx

## Projects

**Attendance for Google Meet™** | *JavaScript, HTML, CSS, Material Design* 2020 – Present

- Open-source Google Chrome extension with over 20,000 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"

**Yellow Jackets Basketball Performance Intelligence Platform** | *React, Node.js, Express.js* 2023 – Present

- Dynamic dashboard made for Georgia Tech men's basketball coaches that aggregates and visualizes athlete-specific performance metrics from drills and games to help optimize player conditioning and health
- Features custom React visualizations that read real-time data from Kinexon sensors via an Express.js API

**meetoo** | *Dart, Flutter, PostgreSQL* 2023 – Present

- Social app made using Flutter to facilitate meetups between friends through a scheduling interface that indicates when attendees are available by connecting to the APIs of popular online calendars via OAuth 2.0
- Supports a meeting timeline and friend system backed by a PostgreSQL database secured by RLS policies

## Skills

**Languages:** JavaScript (ES12), HTML, CSS, Dart, Java, Python, SQL, Ruby, Bash, PowerShell,  $\LaTeX$

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

**Concepts:** Web Development, Database Design, OOP, FP, Asynchrony, TDD, CI/CD, HTTP, REST, Agile