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 – Present
Software Engineering Intern

- Redesign the financial reporting infrastructure portal as part of the Financial Risk Data and Controls team to improve its user experience, allowing for more effficient generation and analysis of quarterly reports
- Deploy the portal using AWS with measures taken to support continuous integration, logging, and testing

Georgia Tech Professional Education | Atlanta, GA   Jan. 2022 – Present
Application Development Student Assistant

- Migrate 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/tasks with Office/Outlook using Microsoft Power Fx

MathWorks | Natick, MA   May 2022 – Aug. 2022
Software Engineering Intern

- Instrumented the ThingSpeak IoT analytics platform with Prometheus metrics to observe 30+ million API requests/day and generated 10+ Grafana visualizations using PromQL queries to reveal excess request trends
- Conceived, implemented, and tested design changes for a 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

Projects

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
- Reads real-time data from Kinexon sensors via an Express.js API to display in custom React visualizations

Attendance for Google Meet™ | *JavaScript, HTML, CSS*   2020 – Present
- Open–source Google Chrome extension with over 35,000 users from more than 100 countries that automates attendance tracking in Google Meets by proxying internal Meet functions using JavaScript
- Integrates an accessible Material Design UI into the Meet layout that enables users to view and sort attendance, create and edit class rosters, and export organized logs to Google Sheets using the Sheets API
- 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"

The Puzzled Cube | *Java, Node.js, Express.js, SQLite*   2021
- Puzzle platformer video game made using Java Swing that features 24 levels of increasing complexity, 3 unique power-ups, custom graphics, and a global leaderboard backed by an Express.js API and SQLite database

Skills

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

Tools: Git, Node.js, React.js, Flutter, Ruby on Rails, Docker, Linux, Splunk, Prometheus, Unity, Raspberry Pi

Concepts: Web Development, Mobile App Development, Normal Forms, TDD, CI/CD, HTTP, REST, Agile