Theodore Halpern

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Education

Georgia Institute of Technology   Atlanta, GA
Bachelor of Science in Computer Science | GPA 3.67   *May 2027*
Relevant Coursework: Systems and Networks, Design and Analysis of Algorithms, Linear Algebra

Experience

Software Engineering Intern   May 2025 – August 2025
Meta Platforms, Inc.   *Seattle, WA*
- Architected streaming from a GraphQL server to the React Native app, reducing Facebook Marketplace feed latency by 50ms
- Built an interactive visualization tool in React to display client and server performance logs, enhancing latency analysis
- Refactored server-side marketplace listing generation for incremental delivery, enabling early client-side rendering
- Validated product improvements by designing and executing A/B tests with statistically significant control/test groups to isolate the precise impact of new features

Software Engineering Intern   June 2024 – August 2024
Meta Platforms, Inc.   *Menlo Park, CA*
- Created 3 TypeScript React websites with full stack technologies such as Prisma ORM, PostgreSQL, Express, and Supabase
- Used the Relay GraphQL client to combine and cache all server requests from a Type-GraphQL and Apollo Server backend
- Ensured high code quality and accessible design with Jest TypeScript unit tests, CI/CD with GitHub Actions, and Lighthouse
- Fixed faulty links in my team's Meta internal tool by extending the GraphQL API schema with PHP

Tech Counselor   May 2022 – August 2023
iD Tech Summer Camps   *Seattle, WA*
- Taught students ages 7-17 in groups of 4-10 technical skills such as Blender, Unreal Engine, Microcontrollers, JavaScript
- Expressed concepts in digestible pieces and customized projects and lessons based on different learning styles and student interest. Wrote 70+ unique and thoughtful diplomas

Leadership & Community Involvement

Data Structures and Algorithms Teaching Assistant   January 2025 – Present
Georgia Tech College of Computing   *Atlanta, GA*
- Facilitated office hour sessions, offering personalized guidance to students on advanced topics, including Dynamic Programming, Rabin–Karp pattern matching, and Binary Search Trees
- Graded homework and exams, providing individualized feedback on algorithmic time complexity and Java coding style
- Taught weekly recitation sections where course material was solidified and applied to interview-style programming problems

After School Coding Instructor   January 2024 – May 2024
CodeAdvantage   *Washington, D.C.*
- Improved tech literacy in DC area Elementary schools by teaching computer skills, Scratch programming, and Lego Robotics

Projects

BikeBuddy | *C++, ESP32, & SPI* | 1rd Place Hardware Track at HackGT 12   September 2025
- Integrated ESP32 cameras and TFT SPI screens. Eliminated brown outs with careful wiring and soldering

Calm Connect | *Next.js, TwilioSMS, & Prompt Developer*   September 2024
- Integrated Twilio SMS, provisioned phone numbers, and configured webhooks for inbound/outbound messaging. Displayed conversationally scheduled appointments using SSR React components with CRUD for clinic and therapist users

WildTrek | *Flask, Azure, & MongoDB* | Won Most Innovative (out of 25 teams)   May 2023
- Implemented frontend design, achieved a responsive mobile-first ui, integrated functionality, and elegance. Used Jinja to render all HTML so web pages would be free from pop-in
- Deployed a Flask app to Azure with blob photo storage while coordinating with a teammate's MongoDB authentication server

Technical Skills

Languages: JavaScript, CSS, HTML, Python, Java, TypeScript, Hack, PHP, C++, C, SQL
Frameworks: React, GraphQL, React Native, Next.js, Apollo, Relay, Vite, three.js, Flask, Jinja, selenium, ESP-IDF, TFT_eSPI