Daniel Thomas

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EDUCATION

Boston University   Boston, MA
Bachelor of Arts in Mathematics and Computer Science   *Expected May 2027*
- **GPA:** 3.94 (Dean's List x4)
- **Relevant Coursework:** Distributed Systems, Database Systems, Data Structures and Algorithms, Theory of Computation, Mathematical Statistics, Probability, Programming Languages, Computer Systems, Linear Algebra

TECHNICAL SKILLS

Front-End: React, Next.js, JavaScript, TypeScript, HTML, CSS, Material-UI, Tailwind CSS
Back-End: Java, Python, Golang, Node.js, Express.js, Spring Boot, Flask, OCaml, C
Data: SQL (Postgres, MySQL, SQLite), MongoDB, Supabase
Cloud & DevOps: Docker, Google Cloud Platform, Git, Figma

EXPERIENCE

Incoming Software Engineering Intern   Jan. 2026
Boston University Information Services & Technology   *Boston, MA*
- Selected for upcoming internship in Client Technology Engineering, focusing on data and AI infrastructure within Boston University's IT organization

Director of Operations   Jan. 2024 – Present
Upsilon Pi Epsilon   *Boston, MA*
- Manage the full lifecycle of 2-3 student-led computer science workshops per semester with a 5 person team, increasing student engagement by 50% by implementing a 6-week preparation process
- Streamline member recruitment process to 30 days by screening 45 candidates per semester and facilitating behavioral and technical interviews with 15 applicants, ensuring a constant influx of qualified members

Information Technology Support Specialist   Sep. 2023 – Dec. 2025
Boston University Information Services & Technology   *Brookline, MA*
- Resolved 500+ technical issues for IT and classroom equipment across 5 campuses with 90% first-call resolution rate, ensuring reliable technology performance for students and faculty
- Oversaw distribution of 50+ student loaner laptops, reducing turnaround time to 10 minutes through optimized check-out/check-in workflows

PROJECTS

MyFitnessTerrier | *Python, Next.js, Typescript, MongoDB*   Apr. 2025 – Sep. 2025
- Built a nutrition tracking application using **Typescript**, enabling users to sort and filter 600+ menu items from 5 Boston University dining halls by 10 nutrients, 4 dietary tags, and 9 allergens
- Reduced API call time by 75% by restructuring daily API calls to extract nutrition data with **Python** and **Github Actions**, storing them in **MongoDB**, ensuring accurate, up-to-date results
- Implemented a cart feature with **Next.js** for users to add and track menu items, improving meal planning efficiency for 20+ active users

Raft Consensus Algorithm | *Golang*   Oct. 2025 - Nov. 2025
- Created a fault-tolerant distributed system in **Golang** based on the Raft Consensus Protocol to ensure log consistency and reliable client request handling across replicated state machines
- Implemented core Raft components including leader election, heartbeats, commit propagation, log backtracking optimization in inconsistent replicas, ensuring strong consistency and high availability under network partitions

Global Income Score | *Node.js, Typescript, Supabase, MySQL, Express*   Mar. 2025 - Jul. 2025
- Developed a **RESTful API** with **Node.js** and **Express** to serve affordability metrics by region through regional price parities, providing relocation information for any U.S. Metropolian area
- Standardized cost of living data from 400+ U.S. metropolitan areas through U.S. Census and BEA datasets, formatting them through Excel and **MySQL Workbench**, maintaining accuracy of affordability scores