

# THOMAS LAI

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## EDUCATION

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### Tufts University

*Bachelor of Science in Computer Science*

**GPA:** 3.71/4.00, Dean's List for Engineers

**Relevant Courses** – Algorithms, Data Structures, Programming Languages, Machine Structure and Programming, Web Programming, Object-Oriented Programming, Database Systems, Computation Theory, Intro to Machine Learning, Artificial Intelligence, Cybersecurity, Software Engineering, Mobile App Development with iOS & Swift, Linear Algebra, Discrete Math

**Medford, MA**

August 2021 - May 2025

## SKILLS

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**Technologies:** AWS, Git, REST APIs, NoSQL, Nodejs, Express, React, React Native, PostgreSQL, MongoDB, Prisma, Docker

**Programming Languages:** Java, Python, C++, JavaScript, TypeScript, C, Swift, HTML/CSS, SQL, Assembly, Shell Scripting

## EXPERIENCE

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### Technical Research Assistant, HCI Lab

**September 2024 - February 2025**

- Redesigned the user interface and overall design of an argument evaluation platform, aiming to improve visual clarity
- Leveraged React and data visualization libraries to develop dynamic tools with real-time updates, enhancing argument analysis, evidence integration, and workflows while collaborating with researchers to implement user-centered features

### JumboCode

**Medford, MA**

### Technical Lead, The Lantern

**September 2023 - May 2024**

- Managed a 12-person multi-disciplinary team using Agile methods to deliver a user-friendly software app on schedule
- Led developers' code reviews thoroughly, ensuring adherence to best practices and alignment with project specifications
- Guided the team through all technical and engineering challenges while consistently providing mentorship and resources

### Front-End Developer, Aaron's Presents

**September 2022 - May 2023**

- Created a mobile application using React Native, collaborating with a diverse team of developers, designers, and clients
- Built an interactive platform effectively enabling over 100+ mentors to manage student data, projects, and events for Aaron's Presents, a nonprofit dedicated to providing valuable resources to young children with ideas that benefit others

### Full-Stack Developer, Simply Smiles

**September 2021 - May 2022**

- Partnered with a skilled team of engineers to successfully develop and deliver a robust, cross-platform web application
- Built a comprehensive expense tracking system using the MERN stack for Simply Smiles, a nonprofit cutting processing time by 40% to support foster home villages where children are raised in supportive communities to achieve their dreams

## PROJECTS

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### TTS Firewall Management System, *React, Typescript, Node.js/Express, PostgreSQL, Prisma, Docker*

**May 2025**

- Engineered a full-stack firewall management system parsing 10K+ Cisco ASA rules with SAML auth and role-based access
- Designed a complex DB schema with Prisma ORM and deployed containerized microservices using Docker/Apache proxy

### JumboShare, *React Native, NodeJS/Express, MongoDB, Heroku*

**May 2024**

- Spearheaded the successful development of the JumboShare platform prototype to optimize meal swipe usage on campus
- Developed a seamless meal swipe exchange feature to facilitate easier and more efficient swap transactions among students

### FaceTracks, *Affectiva SDK/Spotify API, HTML/CSS/JS, Node.js/Express, Heroku*

**May 2023**

- Developed an innovative music recommendation app that uses facial emotion recognition to suggest user-tailored songs
- Implemented secure authentication for personalized song selection, ensuring smooth integration of the Spotify API