

Toni Liang

Brooklyn, NY | toniliang10@gmail.com | (646)752 – 8829 | linkedin.com/in/toniliang10/

EDUCATION

Stony Brook University @ Stony Brook, NY

B.S. in Computer Science & Applied Mathematics

May 2026

GPA 3.64

WORK EXPERIENCE

Game Developer Intern & Researcher

Orlando, FL

Limbless Solutions @ University of Central Florida

May 2025 - July 2025

- Developed a prosthetic training game in Unreal Engine using C++ and electromyography (EMG) controllers to detect muscle flexes and rotation, improving dexterity outcomes by over 50%.
- Authored 3 documentation guides to help future developers and researchers in building EMG-based training games in Unreal Engine and understand the functionality of my independently developed game.
- Enhanced game usability based on feedback from 20+ proxy users, by leading and analyzing usability testing sessions.

Data Structures & Algorithms and Calculus IV Teaching Assistant

Stony Brook, NY

Stony Brook University

August 2024 - Present

- Created over 100 practice problems, held homework review sessions, and proctored exams for 200+ students.
- Taught a one-hour recitation for 30 students each week, enhancing students' comprehension of the material.

Associate

Stony Brook, NY

Recreation Center @ Stony Brook University

August 2024 – October 2025

- Handled phone calls and in-person inquiries, delivering support with articulate communication.
- Conducted regular building inspections, promptly addressing safety concerns to maintain a secure facility.

Technician

Stony Brook, NY

Staples

January 2023 – May 2023

- Resolved anomalies on 50+ computers by performing troubleshooting on computer software systems.
- Configured applications on over 70 computers by reading documentation on software systems for conventional use.

PROJECTS

Strata Chess | Next.js, MySQL, Prisma ORM, Tailwind CSS

- Launched a full-stack web application via Vercel using Next.js, attracting 100+ users and delivering chess gameplay against the world's number one chess engine, Stockfish.
- Secured user authentication using NextAuth.js for managing JWT across the web app and protected page routes using middleware, while securing user data through third-party providers.
- Constructed a scalable backend with Prisma ORM and MySQL, using REST APIs, Zod validation, and Postman testing, storing data of 50+ users in a secured cloud.
- Utilized TypeScript, Tailwind CSS, and DaisyUI for the frontend UI, improving Google Analytics results and search engine optimization (SEO) by 30% with metadata.

Fake Reddit / Phreddit | Node.js, React, MongoDB

- Deployed a full-stack Reddit-style app using Node.js, Express, React, and MongoDB with schema-based models.
- Implemented JWT authentication with cookie-based session handling for secure and persistent user login.

LEADERSHIP EXPERIENCE

Co-Founder of Web Development Club @ Stony Brook University

- Expanded club membership to 200+ students by coordinating and directing the efforts of a 5-person executive board to streamline programming and outreach.
- Contributing to a 20% increase in event attendance by running weekly school advertisements and marketing strategies.
- Guided 30+ students in building websites, by creating web development content and introducing new tools.

TECHNICAL SKILLS

Programming & Markup Languages: Python | JavaScript | TypeScript | Java | C | C++ | SQL | HTML | CSS | Haskell

Frameworks & Libraries: React.js | Next.js | Node.js | Prisma ORM | Express.js | Tailwind CSS | Zod | FastAPI

Tools & Platforms: MongoDB | PostgreSQL | AWS (S3, Lambda, RDS, DynamoDB, IAM) | Cloudinary | Unreal Engine | Git | GitHub | OpenAI | Cursor | VS CODE | Vercel | Figma | Postman | Jest | Google Analytics