

# Toni Liang

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## 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**

*Limbitless 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