

# Tyler Tran

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## EDUCATION

### University of California, Los Angeles (UCLA)

Bachelor's in Computer Science, Linguistics

Los Angeles, CA

Expected Graduation: June 2025

## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript, TypeScript, Go/Golang, HTML, CSS, SQL

**Frameworks/Libraries:** Node.js, React, Angular, Django, Express.js, Next.js

**Tools/Platforms:** Docker, Kubernetes, AWS (EC2, S3, Lambda, Cloud Formation, SQS), Git, GitHub, Linux, Google Cloud, DigitalOcean, Ansible, Terraform

**Databases:** PostgreSQL, MySQL, MongoDB, AWS: Aurora/RDS

## EXPERIENCE

### Tesla

Software Engineering Intern

September 2024 - Present

Fremont, CA

- Working for the Linux SRE Team.

### Comcast NBCUniversal

Software Engineering Intern

June 2024 - August 2024

New York, NY

- Migrated the Daisy film inventory platform into 40 AWS EC2 instances using AWS S3, SQS, Lambda functions, and Cloud Formation, saving over **\$10,000** monthly on in-house hardware infrastructure maintenance.
- Shipped a self-service solution for the ServAuto internal tool, streamlining a time-consuming Ansible/Terraform execution procedure while providing authentication, tracking, and remote log retention.
- Refactored over 250 components in React and Angular-based internal tools frontend, reducing the codebase by over **50,000 lines**.

### Daily Bruin

Internal Tools Director/Software Engineering Intern

Oct 2023 - Present

Los Angeles, CA

- Implemented Kubernetes migration for dailybruin.com mainsite to horizontally scale, enabling self-repair and distributed node processes, resulting in over **\$300** monthly savings on DigitalOcean deployment costs.
- Directed a team of 10 developers to create an internal sources citation manager for journalists, utilizing MongoDB and Docker containerization to improve accessibility for Daily Bruin Staff to cite sources up to **30%** faster.

### ACM TeachLA

Software Developer

Apr 2023 - Mar 2024

Los Angeles, CA

- Constructed a web-based integrated development environment (IDE) featuring in-browser support for Python, JavaScript, HTML, and React using TypeScript and Go for seamless multi-language coding and development.
- Debugged critical issues within the front-end UI and established a CI/CD pipeline through GitHub Actions to run automated linting checks, reducing runtime compilation errors by 26%.

### Meristream

Software Engineering Intern

Jun 2023 - Sep 2023

Remote

- Orchestrated the end-to-end implementation, testing, deployment, and maintenance (SDLC) of a database infrastructure to manage relational data for subscriptions, customers, and user transactions that supports over **20,000** users.
- Optimized page load times by 15% and reduce internal memory usage by 23% using Next.js server-side rendering.
- Established secure communication between front-end UI states, Stripe API and AWS Aurora by developing an Express.js API to ensure reliable, idempotent operations for secure data transmission.

## PROJECTS

### ColorCue | JavaScript, TypeScript

Devpost | [GitHub](#)

- Won 2nd place at the annual QWER HACKS Hack-a-thon by launching a Firefox extension designed to enhance web accessibility for users with color vision deficiencies.
- Refactored a daltonization algorithm publication to fine-tune the calibration of every individual color pixel hex-code within the Document Object Model (DOM), enabling the adjustment of images and background colors.

### Little Free Libgen | C++, React.js, Node.js, MongoDB, Git

Devpost | [GitHub](#)

- Developed a library unit accessible via a mobile app, facilitating book exchange via ISBN barcode scanning. Units are unlocked/locked, updating catalogs, and their locations can be explored on the app's map page.
- Implemented an Express API to facilitate communication among the frontend, MongoDB backend, and Arduino Nano, enabling bidirectional updates between devices.