

# Ethan Liu

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## EDUCATION

### California State University Long Beach

Long Beach, CA

*Bachelor of Science in Computer Science*

*Aug. 2021 – May 2025*

- Courses: Application Development, Data Structures and Algorithms, Artificial Intelligence, Machine Learning

## EXPERIENCE

### Software Engineer

June 2025 – Present

*Tone Software Corporation*

*Anaheim, CA*

- Developed a Python-based web testing application enabling remote testing and viewing of mainframe products.
- Migrated backend services from a legacy architecture to a new platform, enhancing system scalability, performance, and maintainability.
- Set up and configured an LDAP directory service in Docker containers on a Linux environment, centralizing authentication and streamlining user management.

### Software Engineer Intern

December 2024 – June 2025

*Tone Software Corporation*

*Anaheim, CA*

- Developed C# CLI tools to enhance GUI interfaces for seamless connectivity with IBM mainframe systems.
- Set up and configured a self-hosted MinIO S3 service on an Ubuntu server to support scalable and secure file storage solutions.
- Designed and implemented JCL scripts for IBM mainframes, enabling efficient file transfer operations between mainframes and the S3 service.
- Created a Python program to enable seamless execution of JCL scripts directly from VSCode, allowing users to connect to and run jobs on their choice of z/OS mainframes with proper access.

### Application Developer Intern

June 2023 – Present

*Siemens Digital Industries Software*

*Costa Mesa, CA*

- Converted OpenRoad and Perl user scripts from Ingress to PostgreSQL syntax for the PostgreSQL migration.
- Developed and integrated a Java SpringBoot REST API to enhance website functionality and user experience.
- Collaborated in the development and refinement of the website using Vue.js and Bootstrap, significantly improving usability and user interface design.
- Revamped critical Perl and Python scripts, enhancing connections to the Ingress database and AWS, resulting in a noticeable 10% speed optimization.
- Contributed to the integration of GPT technology for a user-assistance bot, enhancing website interactivity and providing comprehensive user documentation for improved user experience.

## PROJECTS

### Image Scraper | *Python, Docker, Selenium*

- Engineered a Python script for efficient extraction of .jpeg files from network communications associated with the website, streamlining data retrieval and analysis processes.
- Configured Docker Compose for seamless deployment and execution on headless systems.
- Incorporated multi-threading and asynchronous tasks, significantly boosting the scraping process's speed and efficiency.

### DiscordCloud | *Sveltekit, NodeJS, Tailwind, Zod, SQLite, Python, Discord API*

- Leveraged REST API to fetch and send messages, integrating it seamlessly into the application.
- Utilized SvelteKit for dynamic front-end development, incorporating server-side rendering and Tailwind CSS for an enhanced user interface.
- Developed a robust NodeJS backend to manage account creation, handle complex queries to the SQLite database and split and send files to Discord.

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, JavaScript, HTML/CSS, C++, TypeScript, C#, JCL, Perl

**Frameworks:** React, SvelteKit, Django, VueJS, Node.js, Express.js, Bootstrap, Tailwind CSS

**Developer Tools:** Git, Docker, Firebase, Visual Studio, PyCharm, IntelliJ, Eclipse, JIRA, Jenkins, AWS, Heroku