

# Brendan Lieu

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## EDUCATION

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**University of California, Irvine**  
*Bachelor of Science in Computer Science*

June 2027  
GPA: 3.7

## EXPERIENCE

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### Sciton Inc.

June 2025 – September 2025

*Software Engineering Intern*

*Palo Alto, CA*

- Developed an internal profit-projection platform adopted by 50+ sales reps with React, TypeScript, and Python
- Reduced internal search query times by 93% by restructuring data into parsed SQL tables in Google BigQuery
- Engineered Python interface to automate robotic-arm testing of laser devices with motion control and visualization

### Commit the Change

October 2023 – Present

*Project Director*

*Irvine, CA*

- Led 50 developers and 12 designers to deliver full-stack apps, streamlining operations for three local nonprofits
- Delivered volunteer registration app for 4,000+ users, saving 50+ staff hours/month using TypeScript & React
- Leveraged GitHub Actions and AWS (CloudFront, EC2, S3, RDS) CI/CD to support legacy nonprofit projects

### ZotnFound

September 2024 – Present

*Full Stack Developer*

*Irvine, CA*

- Built a campus-wide lost and found app with TypeScript and React Native, facilitating 100+ item reports
- Leveraged SST and AWS services (RDS, S3) to deliver a real-time platform serving 700+ monthly users
- Migrated ZotnFound to Next.js, Shadcn, and Drizzle ORM, modernizing the stack for scalability and reliability

### Live Good Inc.

January 2025 – May 2025

*Cybersecurity Analyst*

*Irvine, CA*

- Patched 5+ website vulnerabilities to prevent data exposure from endpoints and WordPress plugin exploits
- Built 50+ high-quality backlinks by fixing broken links and refining keywords, improving SEO and brand visibility
- Delivered SEO and cybersecurity reports to leadership and executed fixes to improve site security and performance

## PROJECTS

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### RateMyClub.org | TypeScript, React, PostgreSQL, AWS (EC2 + RDS)

June 2024 - October 2024

- Deployed a responsive full-stack web app on AWS, enabling 100+ students to discover and review university clubs
- Crafted intuitive UI/UX in Figma and translated designs into reusable and mobile-friendly React components
- Built server-side filtering and search achieving <100 ms response times when querying clubs by tags and university

### Fabflix | Java, MySQL, Apache Tomcat, Docker, Kubernetes, GCP, AWS EC2

January 2025 - April 2025

- Built and deployed full-stack movie database app with Java, MySQL, Docker, and Apache Tomcat
- Implemented connection pooling with replica databases to scale read operations and improve efficiency
- Deployed and load-balanced app with Docker, Kubernetes (K8S), and GCP to ensure scalability

### Academic Search Engine | Python, FastAPI, React, ChatGPT API

January 2025 - April 2025

- Built a search engine for a collection of school files using React and Python for web scraping and parsing
- Achieved <300ms lookup time by implementing inverted index, PageRank algorithm, and multithreading
- Integrated ChatGPT API for NLP-based summarization of search results, enhancing clarity and user experience

### Emoticam | Python, PyTorch, OpenCV

August 2022

- Achieved 90%+ accuracy training PyTorch models to classify facial expressions and hand signs into emojis
- Developed real-time emoji translation app, enhancing accessibility and engagement in digital communication
- Won 1st place in Overall category and a grand prize of \$1000 at Los Altos Hacks with 300+ participants

## TECHNICAL SKILLS

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**Languages:** JavaScript, Java, Python, C/C++, SQL (MySQL, PostgreSQL, BigQuery), HTML/CSS

**Frameworks/Libraries:** React/React Native, TypeScript, Flask, FastAPI, Express.js, Node.js, Pandas

**Platforms/Tools:** AWS (RDS, EC2, S3), Kubernetes, Docker, Google Cloud, Firebase, Git, WordPress