

# LUCAS AMBERG

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[lucasamberg.dev](https://lucasamberg.dev)

## EDUCATION

### California State University, Long Beach

*Bachelor of Science in Computer Science*

Long Beach, CA

August 2022 – May 2026

- GPA: 3.794
- Relevant Coursework: Data Structures, Algorithms, Object Oriented Application Development, Discrete Structures
- Member of Kappa Sigma Fraternity, Google Developer Student Club, Association for Computing Machinery, AI Research Club, Virtual Reality Operations Club
- President's Honor List *Fall 2023, Spring 2024*
- Dean's Honor List *Fall 2022, Spring 2023*

### University of Hertfordshire

*Bachelor of Science (Honors) in Computer Science*

Hatfield, England, UK

August 2024 – January 2025

- Studying abroad this fall semester, hoping to enrich my skillset with a different perspective on learning Computer Science.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript Python, CSS

**Frameworks:** React.js, Next.js, Tailwind CSS, Panda CSS

**Developer Tools:** Git, VS Code, Linux OS, AWS, Figma, WSL, Pulumi, Jira

**Databases:** MongoDB, Neo4J, Cypher, PostgreSQL

**Concepts:** Data Structures, Full Stack Web Development, REST, Object Oriented Programming, Algorithms, Machine Learning

## EXPERIENCE

### Software Engineering Intern

June 2024 – Present

*PlutoTV*

*Los Angeles, CA*

- Constructed two POC demos for the Accessibility Team in React Native covering focus management and keyboard navigation.
- Developed six library generators and four app generators using Nx, speeding up library and app generation by over 80%.
- Documented and presented my implementation for app and library generators to 200+ team members in 2 presentations.

### Software Engineering Intern

February 2024 – June 2024

*Hirebird*

*New York, NY*

- Developing frontend with Next.js and Panda CSS, backend with TypeScript and Neo4j, and cloud infrastructure with AWS and Pulumi.
- Implemented live messaging with file uploads using AWS S3, Liveblocks, and Next.js along with Panda CSS and Park UI for clean and consistent styling.
- Scrummed with team of 10+ developers 2-3 times weekly using Figma, Jira, Miro, Notion, and other collaboration tools to visualize concepts and plan kanban or sprints.

### Information Technology Student Specialist

March 2023 – May 2024

*Port of Los Angeles*

*Los Angeles, CA*

- Automated Microsoft Office patches across 200+ computers using Visual Basic scripts reducing update times by 80%.
- Streamlined application and computer setup process through the implementation of customized batch files and command line operations, resulting in a 30% reduction in overall setup time.

## PROJECTS / OPEN SOURCE

[Uix Graph Library, Maintainer](#) | *TypeScript, Zod, Neo4j, OpenAI API*

June 2024 – Present

- Contributed entirety of [documentation](#), allowing for several new users and contributors to access the library.
- Designed 30+ unit tests using Vitest to assert core graph database interactions and successful vector embedding of nodes.

[Green Field Churrascaria Website](#) | *Next.js, Neo4j, Uix, Panda CSS, Radix UI*

May 2024 – In Progress

- Leading development and designing system structure for two person contracted website redevelopment.
- Streamlined development using Uix, a Neo4j graph library, allowing for seamless client tracking and reservation system, digitizing a formerly analog reservation system and lowering restaurant operational costs.

## LEADERSHIP

- Served as Grand Scribe and Recruitment Chairman for Kappa Sigma, directed a 25 person committee over 4 months.
- Raised \$10,000 for the Military Heroes Campaign over a 1 year period as Assistant Philanthropy Chairman of Kappa Sigma.
- Planned a \$1000 budget used to orchestrate five recruitment events that attracted 200+ attendees.
- Organized a \$500 budget for an Alumni networking event that drew 60+ attendees.
- Authored and distributed newsletters to 1,500+ chapter alumni.