

# Emily Lam

(925) 683-4388 | emilychilam@gmail.com | [LinkedIn](#) | [GitHub](#) | [Website](#)

## TECHNICAL SKILLS

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**Coding:** Python, JavaScript, TypeScript, C/C++, SQL, HTML, CSS

**Tools and Frameworks:** React, Angular, Django, FastAPI, REST APIs, PostgreSQL, AWS, Docker, Git, Confluence

## PROFESSIONAL EXPERIENCE

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**Lawrence Livermore National Laboratory | Livermore, CA**

**Jun. 2024 - Aug. 2025**

*Software Engineering Intern*

- Used AWS Cloudformation, Lambda, SQS, and more within an event driven architecture to enhance functionality of an email microservice, while implementing a least privilege policy to improve security
- Designed and deployed a CI/CD pipeline in Azure DevOps, enabling automatic deployment across multiple AWS accounts and environments, and the execution of unit tests
- Created unit tests to validate Lambda function performance and reliability
- Developed a REST API using FastAPI and AWS API Gateway, with authentication via a Lambda authorizer, and documentation on Confluence
- Collaborated with team to build an additional feature to an application; used Angular to build the front end
- Selected as a top presenter out of 66 intern participants for a technical presentation on the above feature

**Baskin School of Engineering | Santa Cruz, CA**

**Sept 2023 - Aug. 2024**

*Undergraduate Tutor*

- Used analogies and visual aids to explain concepts
- Strengthened problem solving and communications skills by helping students debug code

## PROJECTS

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**LeetMon** | [GitHub](#)

**Aug. 2025**

- A cross-browser extension which gamifies Leetcode, letting users “catch” Pokémon upon successful code submissions
- Integrated with PokéAPI to dynamically fetch and display Pokémon data on problem pages
- Developed using WXT (web extension framework) and TypeScript

**Recipe Book** | [GitHub](#) | [Live Site](#)

**Jun. 2025**

- Designed and implemented a full-stack web application with React frontend and Django REST API backend, enabling users to authenticate, search, and perform CRUD operations on recipes
- Integrated web scraping with BeautifulSoup to dynamically collect and parse recipes from AllRecipes.com
- Secured endpoints with JWT-based authentication and deployed the application on Render for scalable hosting

**PogoBot** | [GitHub](#)

**Dec. 2023**

- A discord bot that gives the latest updates on Pokemon Go events. Data scraped from leekduck.com
- Created using Python, BeautifulSoup, RegEx, JSON, discord.py API, PoGo API

## EDUCATION

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**University of California: Santa Cruz | Santa Cruz, CA**

**June 2026**

**B.S. in Computer Science | GPA: 3.89/4.0**

- **Courses:** Computer Systems and C Programming, Introduction to Data Structures and Algorithms, Machine Learning Basics, Database Systems, Full Stack Web Development