

# James Molamphy

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## EDUCATION

### University of California, Irvine

B.S., Computer Science

Irvine, CA

September 2018 - June 2022

### San Joaquin Delta College

A.A., Arts and Humanities | A.A., Teacher Education Preparation | Cum Laude

Stockton, CA

August 2014 - May 2018

## WORK EXPERIENCE

### Sun West Mortgage Company, Inc.

Software Engineer

(Remote) Irvine, CA

October 2022 - Present

- **Related skills:** Java, JavaServer Pages (JSP), JavaScript, HTML, Git
- Developed & maintained responsive web applications using Java, JSP, JavaScript, and HTML.
- Facilitated communications and usability tests with business experts to gather requirements, develop solutions, and troubleshoot issues.
- Wrote detailed design documentation and test plans to outline the business need and code design, as well as ensure tasks are tested thoroughly

### Commit the Change

UI/UX Designer & Researcher

Irvine, CA

October 2021 - March 2022

- Conducted competitive analysis and research alongside 5 designers to define user pain points and needs, as well as brainstorm solutions.
- Utilized Figma to produce desktop and mobile wireframes, and prototype pages based on business requirements and client feedback.
- Hosted usability-testing sessions after each design iteration to diagnose and solve issues with our solution, improving overall user satisfaction.

## PROJECT EXPERIENCE

### Online Server Storage Project

Software Engineer

Irvine, CA

May 2022 - June 2022

- Engineered an application in C that allows users to simultaneously download from and upload files to a TCP socket storage cloud server.
- Ensured that files were synchronized amongst all users, which involved locking any file that is currently being edited until the user closes it.

### Adversarial Machine Learning Project

Machine Learning Engineer

Irvine, CA

January 2022 - March 2022

- Implemented a Python defense system against adversarial attacks for a classification model of CIFAR-10 color images.
- Utilized adversarial training, input transformation, and attack detection techniques to improve defense model's predictions.
- Optimized the effectiveness of attack detection, raising perturbed image accuracy by 36% without impacting clean accuracy.

### Search Engine System Project

Software Engineer

Irvine, CA

April 2021 - June 2021

- Led a team in ground-up development of a Python search engine that utilized a web crawler and indexer.
- Exercised best-practices such as inverted index to handle tens of thousands of documents or pages with response time under 300ms.

## LEADERSHIP EXPERIENCE

### Change Thru Games, Circle K International, UC Irvine

Event Director

Irvine, CA

March 2020 - November 2021

- Spearheaded the first virtual Change Thru Games; secured \$1100+ for CDP Covid-19 Response Fund in May 2020, \$1400+ for The Breast Cancer Fundraiser in January 2021, and \$2100+ for Feeding America in November 2021.
- Revamped committee structure and reorganized responsibilities to have a more defined focus, improving team satisfaction and efficiency.
- Led outreach efforts to enhance community and company relations, resulting in an increase of over 68% in unique Twitch viewer count, \$400+ in company sponsorships, and over 50% of total proceeds raised.

## SKILLS

**Technologies** Git, Figma, Unity, MySQL

**Languages** Java, JavaScript, Python, C++, C#, SQL

**Soft Skills** Project Management, Usability Testing, UX Research, Event Management

## ADDITIONAL INFORMATION

**Awards** UC Irvine Circle K Hall of Fame (May 2022), Best Game Hack at Rose Hack (Jan 2022)

**Interests** User Experience, Game Development, Video Editing, Philanthropy