

# Jason Songvilay

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## EDUCATION

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### Bachelor of Science in Computer Science

August 2017 – May 2021

San Diego State University, San Diego, CA

Overall GPA: 3.42

- **Relevant Coursework:** Data Structures, Operating Systems, Wireless Networks, Machine Learning, UNIX Administration, Software Systems Design

## EXPERIENCE

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### Mathly Frontend Developer

August 2020 – Present

#### Mathly

San Diego, CA

- Build all frontend user interfaces using ReactJS classes and hooks, CSS, and Bootstrap frameworks
- Implement functionality of software UI with Mathsteps API to dynamically solve algebraic expressions
- Collaborate with business team to evolve site experience for userbase of 100+ educators and students

### Webmaster

April 2018 – May 2019

#### San Diego State University, Asian Pacific Student Alliance

San Diego, CA

- Designed new Squarespace website using HTML, CSS, and JavaScript to increase org. marketability
- Produced media content for 5 social media platforms and 2 websites to reach 500+ members daily
- Led promotional campaign for Fashion Talent Show reaching 33,140 impressions and 2,147 accounts

## PROJECTS

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### Gradebook Software

January 2021 – May 2021

#### Java

San Diego State University

- Created a console-based gradebook for instructors to create, manage, and sort assignments
- Documented software's design utilizing UML class diagrams and requirement specifications
- Led development team of 3 by forming functional requirements to complete for each lifecycle

### Dictionary ADT

April 2020 – May 2020

#### Java

San Diego State University

- Constructed with hashtable, binary search tree, and red-black tree data structures
- Initialized to accept generic objects and dynamically increase structure size
- Conducted empirical timing tests to ensure efficient runtime complexity of methods

### Campus App

December 2019 – January 2020

#### SwiftUI

San Diego, CA

- Developed iOS application to display pinpoint location of 12 common SDSU classrooms
- Simulated and tested application within XCode IDE and directly on Apple devices
- Designed to automatically respond and scale from iPhone 5 up to XS Max screen sizes

## SKILLS & CERTIFICATIONS

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- Years of experience: Java (3+), HTML/CSS (3+), React (2), Python (2), JavaScript (2), C/C++ (1), SwiftUI (1)
- Extensive time in Visual Studio Code, GitHub, Terminal, XCode, VIM, Figma, Teams

## AWARDS & LEADERSHIP

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- College of Sciences Dean's List (Spring 2020)
- Asian Pacific Student Alliance Executive Board Member of the Year (2018-2019)