

# Jonny K. Tran

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in jonathanktran  
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jonathanktran.github.io

## Education

### University of California, San Diego

B.S. in Computer Science with minor in Cognitive Science

- > GPA: 3.9/4.0
- > UCSD Regents Scholar (awarded to 1% of students)

Expected Jun. 2023  
San Diego, CA

## Technical Skills

**Languages:** Python, Java, JavaScript, HTML/CSS, C, C++, C#, SQL

**Tools and Frameworks:** Agile, Flask, Git, NumPy, Pandas, MongoDB, Node.js, React.js

## Work Experience

### Amazon.com, Inc.

Incoming Software Development Engineer Intern

- > 12-week internship program

Jun. 2022 – Sep. 2022  
Seattle, WA

### UCSD Computer Science and Engineering Department

Computer Science Tutor & Summer Program Mentor

- > Provided 1-on-1 tutoring for 600+ students to guide them on Java/C++/Python programming assignments
- > Held weekly office hours that went into detail on data structures, algorithms, and object-oriented design
- > Monitored a pod of 20 students, offering personalized assistance to students reporting high stress levels
- > Mentored 50+ incoming freshmen and prepared them to succeed both academically and socially at UCSD

Jan. 2021 – Jun. 2022  
San Diego, CA

## Programming Projects

### Photo Pixelator | Flask, Python, HTML/CSS, NumPy, PIL, cProfile, Numba

[Project Link](#)

- > Deployed a full stack Flask webapp for converting user-provided images into pixel art using NumPy/PIL
- > Leveraged cProfile/Numba to identify performance bottlenecks and speed up the pixelation process by 350%
- > Utilized responsive and mobile-friendly design practices to ensure compatibility across various device types
- > Incorporated error checking to detect and display error messages for invalid image files and pixel sizes

### Devil Dishes | Agile, HTML/CSS, JavaScript, MongoDB, Netlify, CI/CD

[Project Link](#)

- > Developed a RESTful recipe manager webapp that allows users to create, view, and share recipes online
- > Led the frontend team in designing the landing, login, register, home, explore, and view/edit recipe pages
- > Implemented a database using MongoDB and the Spoonacular API to store thousands of recipes and users
- > Built a CI/CD pipeline using GitHub actions to perform end-to-end, unit, and style testing on pull requests

### Zulip Contributor | JavaScript/TypeScript, Python, Node.js, Vagrant, VirtualBox

[Project Link](#)

- > Contributed bug fixes and features to Zulip, an open source chat application with threaded conversations
- > Improved Zulip's autocomplete by combining redundant command aliases to unclutter the suggestions menu
- > Gained experience working with a large, existing codebase and wrote code adhering to predefined standards
- > Discussed code and webapp features with other contributors on the Zulip developer community forum