

# Zuqi Chen

Seeking Software Engineering / Web Development Internship

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## EXPERIENCE

- March 2016 - Present

Undergraduate CSE Tutor for Prof. Rick Ord

Computer Science and Engineering @ UC San Diego  
Tutoring for CSE 30: Computer Architecture and System Programming

- Guide students through their assembly and C programming assignments
  - Proctor exams and grade programming assignments
- September 2016 - December 2016

Undergraduate CSE Tutor for Prof. Rick Ord

Computer Science and Engineering @ UC San Diego  
Tutoring for CSE 11: Introduction to Computer Science and OOP: Java

- Help students in the lab complete Java programming assignments
  - Proctor quizzes and exams
  - Grade students programming assignments

## PROJECTS

- May 2017

Personal Portfolio Website

HTML, CSS (Sass), JavaScript, Harp

- Mobile-first and responsive static site
  - Use Sass to preprocess the stylesheets
  - Use Animate.css to move elements around
  - Use JavaScript for some fun visual elements
  - Hosted on GitHub Pages
- April 2017

gsjs (GradeSource web scraper)

Node.js

- Get course info and grades from given GradeSource url
  - Output data as JSON
  - Test Driven Development with ava test framework
  - Hundreds of downloads on npm
- March 2017

GradeBook Rest API

Node.js, Express.js, Firebase

- Perform CRUD operations on users and their grades
  - Store normalized data on Firebase Realtime database
  - Authenticate clients by JSON web token (JWT)
  - Working on the front end using Vue.js
- July 2016

Tic Tac Toe Game

Ruby

- A command line version of the Tic Tac Toe game
  - Use plain Ruby
  - Design from scratch
- May 2016 - June 2016

6 Degrees of Kevin Bacon (academic)

C++

- Explore the degrees of separation between Hollywood actors that act in the same movies
  - Find the earliest year two actors collaborated
  - Use a huge actor lists parsed from IMDB database
  - Implement using graphs and unions, which drastically reduce the running time

## EDUCATION

- September 2014 - December 2018 (expected)

University of California, San Diego

B.S. Computer Science | GPA: 3.5 / 4.0

## RELATED COURSEWORK

- Completed Courses

Introduction to Computer Science and OOP: Java

Basic Data Structures and Object-Oriented Design

Advanced Data Structure

Software Engineering

Design and Analysis of Algorithms

Computer Organization and Systems Programming

Principles of Computer Operating Systems

Components and Design Techniques for Digital Systems

Digital Systems Laboratory

Introduction to Computer Architecture

Software Tools and Techniques Laboratory

Introduction to Theory of Computation

Project in Computer Architecture

Mathematics for Algorithm and Systems

Introduction to Discrete Mathematics
- Work In Progress

Programming Languages: Principles and Paradigms

Intro to Artificial Intelligence: Search and Reasoning

## SKILLS

- Programming Languages & Tools

Java

C / C++

Python

HTML, CSS, JavaScript

MongoDB

Express.js

Node.js

Vue.js

Ruby

Firebase

SPARC Assembly

Unix Shell Script

Agile Development