

# Shiwei Chen

(669)-269-3255 | [aprilschen6@gmail.com](mailto:aprilschen6@gmail.com) | Cupertino, CA | [in](#) [Linkedin](#) | [Github](#) | [Portfolio](#)

Shiwei is a Freelance Software Developer & Programming Instructor studying part-time at De Anza College.

## Experience

### Programming Teacher

Aug 2022 - Present

Bay Coding Club, Inc,

Cupertino, CA

- Administered web development coding bootcamps, teaching high school students HTML, CSS, and vanilla JavaScript by modifying proposed curriculums based on individual student skill level.
- Developed custom curriculums for students, administering semester-length courses covering data structures, algorithms, and problem solving techniques such as greedy approximation.

### Competitive Programming Instructor

Jun 2022 - Present

Self-employed

Remote, Online

- Coached students for the USA Computing Olympiad (USACO) in Java/C++, helping 2 students promote from bronze to silver division by teaching graph traversal algorithms, union find data structure, and recursion.
- Provided education consulting services by holding bi-weekly 1-on-1s with parents to discuss status updates; drafted long-term roadmaps to help students achieve their goals, such as winning awards or passing exams.

### Computer Science Teaching Assistant

Sep 2022 - Dec 2022

Cupertino High School

Cupertino, CA

- Debugged and code reviewed over 400 student submissions of class projects, labs, and homeworks in the "Introduction to Programming class" on the Coding Bat and CodeHS platforms.
- Mentored and suggested university courses for high school students learning coding to audit on their own.

## Projects

### Café Stile

Feb 2023

- Cafe Stile is a marketplace web app that allows users to book local freelance services, [hosted by AWS Amplify](#).
- Implemented front-end using React with Material UI and backend using Django and PostgreSQL.

### Digicache

Jan 2023

- Digicache is a responsive and single-page web app for geotagging and sharing photos using Google Maps API.
- Created a robust React front-end with Typescript to enforce better code health and to ensure proper conversion of DateTime objects when retrieving photo data from the MySQL server.

### Little Lemon Website

Nov 2022

- Wireframed, prototyped, and deployed a restaurant reservation site with form validation and email confirmation.
- Created automated unit tests and mock data using Jest to validate back-end responses.

## Skills

**Languages:** Java (5), Javascript/HTML/CSS (4), Python (3), C++ (3), SQL (2), Typescript (2)

**Technologies:** React, Bootstrap, Material/Chakra UI, Django, MySQL, PostgreSQL, SQLite

**Developer Tools:** VSCode, JetBrains IDE Toolbox, Git/Github, AWS (Lambda, Amplify), Insomnia, Figma, Vite

**Engineering Skills:** Algorithms, REST, AWS Architecting, Object-Oriented Design, Agile/Waterfall methodologies

## Education

### De Anza College (Part-time)

Jan 2023 - Present

- Associates in Science for Transfer, Computer Science

### Coursera Specializations

May 2022 - Present

- [Meta Front-end Professional Certificate](#) and [Back-end Developer Professional Certificate](#)
- [AWS Technical Essentials Course Certificate](#)

## Awards

### USA Computing Olympiad - Gold Qualifier

Mar 2022

- Placed top 8% in national computing olympiad, writing memory and compute optimized solutions in Java and C++