

# Troy Justin Sorongon

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## EDUCATION

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### UNIVERSITY OF SAN FRANCISCO

San Francisco, CA

**Major:** Computer Science (GPA: 3.4)

Expected December 2023

**Relevant Coursework:** Object-Oriented Programming (Java, Python); Data Structures and Algorithms (Java); Systems

**Programming:** (C); Computer Networks: (C, WireShark); Software Development: (Java, SQL); Full-Stack Web Development: (JavaScript(NodeJS, React), HTML5, CSS)

**Certifications:** AWS Cloud Practitioner

## WORK EXPERIENCE

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### TheCoderSchool

San Francisco, CA

Coding Instructor/Teacher

June 2023 – Current

- Teaching kids from ages 7-14 fundamental and advanced Python, programming concepts, and skills in a personalized lesson plan for each kid
- Promoting the development of problem-solving and critical thinking for the kids through problem-solving exercises. Exercises consisted of programming challenges and building games (Connect4, Battleship)
- Developing preparation, presentation, and delivery skills through breaking down problems in easy to understand ideas

### UNIVERSITY OF SAN FRANCISCO

San Francisco, CA

Teacher Assistant

August 2021 – December 2021

- Assistant for CS107: Computing, Mobile Apps, and the Web; beginner course that utilized Thunkable app creation software to build mobile apps.
- Collaborated with Teacher to plan efficient, comprehensible course material for an enjoyable experience for students.
- Guided students towards efficient solutions and cooperated with them in their problem-solving thought process
- Graded assignments and projects in a timely organized manner

## UNIVERSITY PROJECTS

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### Consilient Labs: VISUAL8 (D3, React, next.js)

August 2023 – December 2023 (Current)

- Senior Team project (internship-like environment). Collaborating with sponsors from Consilient Labs to implement interactive and visually appealing **data visualizations** to existing web application using **D3**.
- CLabs REST API generates findings of similarities between an object in memory to other objects with AI technology and returns those findings through JSON format.
- Working in team of 5. My roles are **UI/UX design**, application functionality, and **data visualization**. Improvement on **communication** with teammates, **accountability**, **presentation**, and **Github** (Issues, Branches, Pull Requests, Merge Requests, etc.)

### MULTITHREADED SEARCH ENGINE (Java)

May 2023

- Builds and searches through a designed **inverted index** data structure. Can execute both **exact search** and **partial search**
- Utilizes custom-made read/write **lock** objects and **work queue** to manage worker **threads** for **multithreading** capability
- Implements a **web crawler** that scans and collects information **recursively** to build **inverted index** from a **seed URL**
- Features a **web interface** that takes in **multi-word queries** into an HTML form and returns **sorted partial search** results as a **dynamically generated** web page using embedded **Jetty** and **servlets**

### END-TO-END NETWORK COMPRESSION DETECTION (C)

November 2022

- Detects the number of **UDP** packets sent from a low and high entropy packet train from a **client** to **server** after verifying acceptable connection through a **TCP socket** connection. Server sends compression findings to client
- Utilized **WireShark** for **sniffing** packets transmitted on the network

## SIDE PROJECTS

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## ESPN FANTASY BASKETBALL DATA FETCHER (Python)

January 2022

- Extracted data from the best/trending free agents in my fantasy basketball league by accessing ESPN's **API** by using **cookies** and **headers** for authentication.
- Visualized data findings through **pandas**

## ADDITIONAL

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**Technical Skills:** Java, Python, C, JavaScript, NodeJS, HTML/CSS, Eclipse, Github, Backend, User Experience

**Skills:** Problem-solving, Critical-thinking, Fast-learning, Organization, Planning, Efficiency, Customer Service, Motivated