

Jerry Liu

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EDUCATION

San Jose State University, San Jose

Master of Science, Computer Science

Jan 2023 - Present

California State University, Fullerton

Bachelor of Science, Computer Science

Relative Coursework: Assembly Language, File Structures and Database (SQL, PHP), Operating Systems Concept (C), Algorithms Engineering (JS), Data Science & Big Data (R), Software Design (C++), Software Process, Software Testing (Python), Artificial Intelligence (Python)

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, SQL, JavaScript, R
- **Tools/Miscellaneous:** Git, Jira, Visual Studios, MySQL, PostgreSQL, Cypress Testing, Jest, Pytest

FOREIGN LANGUAGE SKILLS

- Fluent in Mandarin - Chinese

WORK EXPERIENCE

Software Engineer and Research Intern

June 2022 - August 2022

USC Institute for Creative Technologies - Playa Vista, CA

- Expanded website capabilities for an existing content registration portal to allow for web-authored content using React.js
- Implemented automated tests to ensure reliability and code quality with Cypress Testing
- Customized a Python script algorithm to determine permutations of sentences efficiently.
- Analyzed video and audio data for a machine learning task evaluating US Army fireteam's performance

Undergraduate Student Researcher

March 2022 - June 2022

California State University Fullerton - Fullerton, CA

- Analyzed research around Cortisol Activity in Individuals within an Educational Institution
- Extrapolated datasets to classify and test cortisol levels using Python Pandas and NumPy

Computer Science Teacher/Tutor

September 2019 - March 2022

theCoderSchool Cerritos - La Palma, CA

- Coached in 2-On-1's and large classrooms teaching students K through College programming
- Taught popular programming technologies like Flask, Node.JS, and React.JS
- Created individual curriculum to adapt to each student
- Attained customer loyalty through lesson quality, resulting in multiple 5-star reviews
- Fostered a teaching environment successfully helped students get first place in theCoderSchool nationwide competition

PROJECTS

Titan Talks - (React.js, MySQL, Node JS)

- Created Full-stack social media web application focusing on sharing text and images with other users
- Established the architecture for a backend API, database, and CI/CD
- Developed the backend API and database allow for CRUD operations
- GitHub repositories: github.com/jllewis11/titan-talks-2.0

Student Database - (HTML, SQLite, PHP, MariaDB)

- Integrated a relational database utilizing PHP to query
- Deployed on MariaDB using SQLite as the database
- Developed the necessary queries in PHP to return specific search results based on parameters
- GitHub repository: github.com/jllewis11/SQL-Database-Project

Workle - (C++)

- Command line-based job searching program that incorporates object-oriented design.
- Designed corresponding UML models to generate specifications within the system.
- Developed much of the project adding different aspects including documentation and unit tests
- GitHub repository: github.com/jllewis11/WorkleV3

LEADERSHIP EXPERIENCE

Eagle Scout

Boy Scouts of America

- Oversaw planning, creation, and budgeting of the project
- Supervised over 30+ volunteers to successfully create the project and meet the deadlines