

Jerry Liu

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EDUCATION

California State University, Fullerton

Bachelor of Science in 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

EXPERIENCE

Software Engineer and Research Intern

June 2022 – August 2022

USC Institute for Creative Technologies - Playa Vista, CA

- Expanded website capabilities of 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
- Developed a Python script algorithm that determined permutations of sentences, increasing efficiency greatly.
- 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
- Developed individual curriculum to adapt to each student
- Building customer loyalty through lesson quality, resulting in multiple 5-star reviews
- Assisted in language translations for students speaking Mandarin Chinese
- Fostered a teaching environment that successfully helped students get first place in theCoderSchool nationwide competition
- Technologies utilized: Python, C++, JavaScript

PROJECTS

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

- Full-stack social media web application that focuses on sharing text and images with other users
- Designed the architecture for the 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)

- Relational database that utilizes 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

SKILLS

Languages: Python, C++, C, R, SQL, JavaScript, SQL

Tools/Miscellaneous: Git, Jira, Visual Studios, MySQL, PostgreSQL

Foreign Languages: Mandarin – Chinese

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