

Jeremy Louie

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Education

University of California, Los Angeles

BS Mathematics of Computation [2022]

Honors: Linear Algebra & Differentials, Discrete Math, Intro to Java

Relevant Coursework: Software Engineering, Operating Systems, Programming Languages, Software Lab Construction, C++ Data Structures and Algorithms, (Math-Based) Algorithms

Experience

Atlas Scientific – Software Developer

Los Angeles, CA Nov 2021 to Present

Achieved greater project scalability by migrating all locally stored data from Raspberry Pi to Google Cloud Firestore Database

Implemented automated data collection (when water flow passes through some sensor) using Python and RPI.GPIO library

Reduced bugs and increased data collection productivity by developing GUI for Biologist Researchers

Zoomie Roomies – Frontend Designer

Los Angeles, CA Sept 2020 to Dec 2020

Rapidly deployed web app that connects postgraduate students searching for roommates using Agile methodologies

Designed and implemented minimalistic user-friendly design using React and CSS

Attended biweekly meetings in order to gauge web app progress and address concerns from Backend Team

Juni Learning – Computer Science Instructor

Los Angeles, CA Sept 2020 to Aug 2021

Privately tutored students in courses ranging from Intro to C++ to Python Algorithms

Provided student progress and learning assessment updates with parents on a daily basis

Launched first-ever iOS Development Club to teach students about Swift UIKit

Pocket Racers – Website Developer

Los Angeles, CA June 2021 to Dec 2021

Reduced website maintenance costs by 100% by porting hosting platform from Squarespace to Github Pages

Implemented consensually tracked user data using Google Analytics Reporting API

Ported over Robot Operating System (ROS) from Raspberry Pi to Jetson Xavier NX to enable real-time Deep Reinforcement Learning

Investigated Bayesian Optimization racing line strategies to calculate the shortest time traversed for an autonomous self-driving RC car

Organizations

Association of Chinese Americans

Association for Computing Machinery

Robotics and Mechanism Laboratory

Languages

Python

C / C++

Java

Bash

OCaml

Swift

Technical Skills

Command Line

Git

GDB

MATLAB