

Jeremy Louie

Software Developer

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Experience

Software Developer @ UCLA Atlas Scientific

Los Angeles, CA Nov 2021 to Present

- ▶ Worked closely with Hardware Engineer, Lab Researchers, and Supervisors to develop smart water filtration system
- ▶ Improved efficiency by developing code to fully automate water data collection scripts
- ▶ Proposed and lead shift towards Google Cloud based system architecture
- ▶ Increased data scalability by leading transition towards Google Firestore

Web Developer / Researcher @ RoMeLa's Pocket Racers

Los Angeles, CA (Remote) June 2021 to Dec 2021

- ▶ Redesigned Pocket Racer's website to promote project mission: to make self-driving autonomous cars more accessible and fun
- ▶ Implemented Google Analytics tracking, email services, and UI using HTML, CSS, and JavaScript
- ▶ Reduced website maintenance costs to 100% by switching from Squarespace to Github Pages
- ▶ Ported Robot Operating System from Raspberry Pi to Jetson Xavier NX to enable real-time deep RL

Computer Science Instructor @ Juni Learning

Los Angeles, CA (Remote) Sept 2020 to Aug 2021

- ▶ Privately tutored students in Python, Java, and C++ Levels 1 to 3
- ▶ Provided student progress reports and learning assessment updates to parents on daily basis
- ▶ Launched first-ever iOS Development Club

Education

University of California - Los Angeles
(BS) Mathematics of Computation

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

Coursework: Software Engineering,
Operating Systems, Programming
Languages, Data Structures and Algorithms

Projects

Portfolio Website

March 2022 to July 2022

Personal website to feature more about me, my interests, and projects. Built in React and CSS / SASS, and deployed on Netlify

Zoomie Roomies

Sept 2021 to Dec 2021

Dedicated web app platform that connects postgraduate students searching for roommates. Built in React and CSS, and deployed on Heroku

Runge-Kutta (RK) Method Analysis

Jan 2019 to June 2019

Research project analyzing two RK methods (written in Python) against two different ODE's. Built in Python and Jupyter Notebook

Skills

Programming Languages

Python, C / C++, Java, Shell Script, OCaml, Swift, HTML, CSS / SASS

Libraries and Tools

Agile, Git, React, Netlify, Google Cloud