

Roy Lee

470-919-2464 | churlee12@gmail.com | [Github](#) | [LinkedIn](#) | [Portfolio Site](#)

EDUCATION

Diablo Valley College

Concord, CA

Associate's in Mathematics and Psychology; Relevant Coursework: Social Psychology (GPA 4.0) Jun. 2023 – May 2024

RESEARCH EXPERIENCE

Undergraduate Research Assistant: DIPS Lab

Aug. 2023 - Present

UC Davis

Davis, CA

- Worked as a research assistant at the Dynamics in Psychological Science Lab with Professor Emilio Ferrer.
- Engaged in weekly discussions on current and ongoing research projects within the field of computational psychology.
- Actively participated in lab meetings, facilitating collaborative discussions on research methodologies, findings, and potential areas for improvement.

Isolation Index | *ReactJS, Jupyter Notebook, TailwindCSS, MapBox API*

July 2023

[View Code](#) | [View Live](#)

- Led an independent research project aimed at visualizing the risk of social isolation in US counties.
- Utilized Census data to analyze various factors such as socio-economic disparity and the presence of LGBT communities.
- Developed an interactive map with the MapBox API, enabling easy visualization and understanding of data.
- Honed skills in data processing and manipulation using Python libraries including numpy and pandas.

EXPERIENCE

Teaching Assistant: CIS 61

Aug. 2023 - Present

Laney College

Oakland, CA

- Teaching Assistant for Structure and Interpretation of Computer Programs
- Graded papers, hosted remedial workshops on computer programming principles, helped deliver lectures on concepts like Big O Notation.

Caretaker

May 2022 – May 2023

Home

Suwanee, GA

- Took care of my sick mother, ensuring her health and well-being were prioritized.
- Regularly drove her to and from the hospital for check-ups and treatments.
- Managed her medication regime, including picking up prescriptions and ensuring timely administration.
- Closely monitored and managed her blood sugar levels, ensuring dietary and health guidelines were adhered to.
- Acted as a translator during medical appointments, bridging communication between healthcare professionals and my mother.

PROJECTS

DVC Connect | *Next, TypeScript, TailwindCSS, Firebase*

July 2023

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- Developed and launched DVC Connect, a comprehensive platform tailored for international students to access tutoring resources effortlessly.
- Currently in negotiation phases to integrate the platform across three major California community colleges, with the potential to serve over 30,000 students.
- Designed the user interface, backend services, and collaborated with stakeholders to ensure alignment with user needs and institutional requirements.

TECHNICAL SKILLS

Languages: Javascript/Typescript, Python, Go, C/C++, SQL, NoSQL, HTML/CSS

Technologies/Frameworks: React, Node.js, Express, Django, Gin, TailwindCSS, React Native

Libraries: pandas, NumPy, Matplotlib, geopandas, Pytorch, Tensorflow, Selenium, LangChain

AWARDS

American Invitational Mathematics Examination: 2x AIME Qualifier (90th percentile of competitors)

M3 Math Modeling Competition: International Semi-Finalist (Top 12 out of 400+ teams)