Calvin Tran

714-615-8219 • Los Angeles, CA • https://github.com/calvintuantran

EDUCATION

University of California, Los Angeles | Bachelor of Science in Math for Teaching — Expected June. 2022

- Relevant Coursework: Data Structures and Algorithms, Machine learning with Python, Programming in C++ ,Numerical Methods
- **GPA: 3.6**

TECHNICAL SKILLS

Languages: Python, JavaScript, C/C++, MATLAB, HTML/CSS, *PostgreSQL*, SendGrid

Frameworks: Node.Js, React, Express, Bootstrap, jQuery, SASS, React

Developer Tools: Git, VS Code, XCode

PROJECT EXPERIENCE

BEmpty | *PostgreSQL, Express, React, Node.js (PERN)* — April 2022

- Programmed an automated web application using Selium web scraper on UCLA class schedule for nearby empty classrooms based on the user's current location and time.
- Applied mastery of illustrative techniques on Figma to design the visuals and used React and Node.js to program all of BEmpty web pages.

Event Planner Collaboration | *Javascript, React,HTML,CSS* — April 2022

LaHacks 2022

- Automated a web application using React and Google Maps API to search for nearby activities based on the users' location and interests from People Labs Database.
- Engineered a website login using Google Account Authentication API which automatically creates events on users' Google Calendar based on the events' time and date.

ManPulance |*Javascript, CSS, HTML, Bootstrap*

Hack-A-Thon: WinHacks 2022 | ***Overall Best*** — March 2022

- Led a team of 4 students through weekly meetings to program an IOS app and website utilizing Google Maps API which connects medical emergencies to nearest hospitals in New Delhi.
- Designed a visual UI/UX prototype on FIGMA demonstrating the app features like Google cloud mapping to nearby hospitals to provide proof of concept to WinHacks judges.

Penguin Species Classification Program | *Python, Machine Learning* — March 2021 - June 2021

- Collaborated with a team of 3 students weekly to design a Penguin species classification system using Python which classifies a 300+ penguin database based on their physical and geographic features..
- Utilized 2-D machine learning models such as decision tree model, SVM model and decision regions to examine the accuracy of different physical traits to categorize the penguin species.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer | UCLA ACM: Teach for LA **|** *MongoDB, Express, React, Node.js (MERN)* — September 2021 - Present

- Debugged and maintained the UCLA ACM TeachLA's static site in a collaborative Git environment in a team of 5 software engineers.
- Used mastery of Javascript, HTML/CSS, and React to develop web tutorials to educate LAUSD middle-school students of Javascript.

Back End Software Engineer | *UCLA NOVA - Tech for Good* — September 2020 - Present

- Acted as Mentor Software Engineer on Tech for Good with 50+ members to develop high-impact technology to empower non-profits.
- Collaborated with the Friends of Semel Institute (mental health organization) to develop AI models with Scikit-learn to advise on how to maximize outreach, engagement, and donations.

UCLA MicroFluidics Lab Researcher — August 2021 - February 2022

The REU MicroFluidics Lab is a research lab that examines the growth rate of a wide variety of fungal mycelia throughout months.

- Acted as a data analyst to evaluate the fungus' mutation over 8 weeks and programmed exponential growth rate figures using Python to examine mutation rate and estimate surplus fungus spore count.
- Experimented with hybrid fungus strains to compare different growth rates amongst the 20 fungal mycelia and to understand the optimization of inertial microfluidic devices.