

Nathan Lai

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Website: <https://www.nathanlai.tech> GitHub: <https://github.com/nathan-lai-engineering>

Education

CALIFORNIA STATE UNIVERSITY, LONG BEACH | 2019 - 2023

- **Major:** Bachelor of Science in Computer Science
- **Cumulative GPA:** 3.7
- **Major GPA:** 3.7
- **Related coursework:** Object-Orientated Programming, Data Structures, Database Fundamentals, Discrete Structures, Algorithms, Software Development with Frameworks

Experience

FEASTREVIEW 2022 - 2023

- Senior programming project around restaurant reviews heavily inspired by Yelp with improvements
- Created using React Native Javascript framework along with Android Studio emulators
- Uses Yelp Fusion for data retrieval, and Firebase Firestore, Storage and Authentication for data storage

CO-AUTHOR 2020 - 2022

A. Tavakoli, **N. Lai**, V. Balali, A. Heydarian. "How Are Drivers' Stress Levels And Emotions Associated With The Driving Context? A Naturalistic Study"

- Assisted Dr. Vahid Balali in collaboration with the University of Virginia's Link Lab in research pertaining to human emotion in relation to traffic conditions
- Created a Python program that allows for accurate detection of traffic signs using YOLOv5 and EasyOCR
 - Trained a computer vision model using YOLOv5 machine learning on the LISA and COCO datasets
- Created a Python program using MASK-RCNN and YOLOP to detect cars, their lanes, and distance

OBJECTIVE KOALA 2020

- Website focused on JavaScript game created in submission for HackSC 2020
 - Winner of Xpring's sustainability challenge
- Created using Bootstrap, JavaScript, CSS, and HTML
- Demonstrates use of web development and object-orientated design

Skills & Abilities

PROGRAMMING LANGUAGES

- | | | |
|--------------|--------|--------------|
| • Python | • Java | • HTML / CSS |
| • JavaScript | • C++ | • C# |

FRAMEWORKS

- .NET
- React Native

DATABASES

- MySQL
- Oracle
- Firebase