

# Marvin Huynh

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## EDUCATION

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### California State University, Long Beach

*Bachelor of Science in Computer Science – GPA 4.00/4.00*

Jan 2022 – Dec 2024 (*expected*)

*Long Beach, CA*

- **Activities:** Association for Computing Machinery (ACM), Toast Master
- **Coursework:** Algorithms, Object Oriented Application Development, Discrete Structures with Computing Applications, Database Fundamentals, Intro to Software Development, Machine Learning

## EXPERIENCE

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### Artificial Intelligence Research Assistant

*California State University, Long Beach*

Sep 2022 – Present

*Long Beach, CA*

- Develop a Python program to navigate and retrieve an object on the floor using two NAO Robots
- Implement ALVision Recognition and OpenCV to detect targets based on visual key points recognition
- Map the searching area by estimating the current location in an arbitrary space using Gmapping and Cartographer
- Utilize D-star algorithm to calculate the shortest path from the robot to the target after successful recognition

### Software Engineering Intern

*Vietlink Global Corp.*

May 2019 – Aug 2019

*Westminster, CA*

- Built a React Native mobile app for 7800+ customers, improving their service experience by reducing wait time
- Designed and implemented internal API for shipment creation and tracking, commodity management, & account settings
- Utilized Redux for state management, React Navigation for seamless navigation, and Firebase for real-time notifications
- Contributed to the project using Git and adhered to strict coding standards and project timelines while collaborating with cross-functional teams

### Computer Science Tutor

*Whatcom Community College*

Oct 2018 – Dec 2018

*Bellingham, WA*

- Guided students in complex CS concepts, including Object-Oriented Design, Data Structures, and Algorithms
- Tutored 10+ students daily in both individual and group, effectively addressing their specific needs and learning styles
- Assisted students in debugging code and offered solutions to improve the efficiency of their Java programming

## RELATED EXPERIENCE

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### Graphic Designer

*Top Print and Design*

Jan 2020 – May 2021

*Garden Grove, CA*

- Designed various graphics and presentations (infographics, logos, flyers, banners, calendars, websites)
- Stayed current with design trends and technology to streamline workflow while executing graphic design projects
- Collaborated with 50+ customers weekly to review design concepts and finalize options to meet their preferences

## PROJECTS

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### Room Organizer in AR (group of 3) | *Swift, SwiftUI, ARKit, RealityKit, Core Data*

Sep 2023 – Present

- Build an app using Swift that leverages RoomPlan API to help users visualize and organize their living spaces
- Apply ARKit and RealityKit framework to create an immersive and interactive AR experience for users
- Employ Core Data framework to store and manage room layout data, allowing users to save and retrieve their designs
- Collaborate with UX/UI designer to create an intuitive and visually appealing user interface

### Climate (individual) | *Swift, Core Location*

May 2023 – May 2023

- Created a weather app using Swift that provides real-time weather information to users
- Integrated OpenWeatherMap API to fetch weather data and display it accurately
- Utilized Core Location framework to provide location-based weather updates using with city name and state

### Camp On Ground (individual) | *Node.js, Express, MongoDB*

Dec 2022 – Mar 2023

- Developed a responsive website using Express framework that enables users to search and find nearby campsites
- Implemented MapBox API to display an interactive map featuring available campsites within a selected area
- Defined RESTful routes that enables the users to easily create, edit a campsite or leave reviews on one

### FoodNow! iOS Mobile App (individual) | *Swift, SwiftUI, Firebase, CocoaPods*

Sep 2022

- Produced a mobile app written in Swift that lets the users quickly order food from a nearby restaurant
- App functionality includes: display and search the items, find user's location, add to cart, checkout, and cancel the order
- Introduced Firebase to retrieve menu and submit orders containing all the details and delivery location
- Conducted thorough testing and debugging to ensure the app's stability and reliability

## TECHNICAL SKILLS

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**Programming & Development:** Java, Python, Swift, JavaScript, HTML/CSS, Node.js, Express.js, React

**Databases:** SQL, MySQL, MongoDB, Oracle Cloud, Firebase, Core Data

**Tools & Operating Systems:** Xcode, SwiftUI, CocoaPods, Git, GitHub, Postman, Windows, Linux, AWS, Docker