Marcus Ha

Santa Ana, CA (willing to relocate)
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Github | GithubEdu

PROFILE

Computer Science student with a robust background in full-stack development and Agile project delivery. Demonstrated ability in designing, implementing, and deploying core systems, utilizing languages such as Python and C++. Eager to apply technical skills and collaborative mindset to tackle complex system challenges and advance innovative wearable technologies.

EDUCATION

University Of California, Irvine **Sep 2022 - Apr 2025**
Bachelor of Science, Computer Science

San Jose City College **Aug 2019 - May 2022**
Computer Science

EXPERIENCE

University Of California, Irvine **Apr 2024 - Jun 2024**
Website Developer, IN4MATX Department *Irvine, CA*

- Implemented and maintained a robust MERN stack environment, utilizing Git for version control along with Trello, Lucidchart, and Slack to ensure coordinated project management.
- Collaborated with stakeholders in person and via Slack to gather detailed requirements, aligning project goals with technical standards similar to those in systems-level software development.
- Applied Agile methodologies to manage project timelines and adapt to evolving requirements in complex and resource-sensitive environments.
- Contributed to UI design and developed an authentication system supporting multiple user types (admins, Professors), deploying the website on Amazon EC2 and integrating S3 storage for video management, which provided experience with cloud and distributed storage systems.
- Presented regular project updates to stakeholders, refining technical solutions based on feedback and documenting progress through comprehensive weekly reports and presentations.

PROJECT

DuckieTown- Autonomous Navigation- AI Project - Github **Jan 2025 - Present**

- Develop and implement an autonomous navigation system using Duckietown simulator.
- Focus on training and testing a self-driving vehicle including lane-following, avoiding obstacles, stopping on red light.
- Achieved reliable performance across different map layouts including 4-way intersections and obstacle-rich environments.
- Integrating and comparing performance between SAC and PPO AI/ML algorithm.
- Deploy to duckiebot

SnapHealth - Android Health & Wellness App - Github **Jan 2024 - Apr 2024**

- Developed an Android application, SnapHealth, using Kotlin to help the user improve their personalized health recommendations.
- Designed and implemented a Meal Recommendation system that generates three meal suggestions tailored to users' body weight and dietary needs. Integrated a Hydration Tracking system to monitor daily water consumption. Built a Sleep Tracking system that records users' sleep patterns and offers recommendations to enhance sleep quality.

Custom Python Search Engine - Github **Apr 2023 - Jun 2023**

- Designed and implemented a Search Engine using Python to retrieve relevant documents from a large corpus of web pages (~56000 pages). Designed an Inverted Index to store tokens, using Stemming and TF-IDF for accurate document retrieval. Designed algorithms to ensure results return faster than 300ms.

SKILLS

- **Programming Languages**: Python, JavaScript, Kotlin, C++
- **Web Technologies**: HTML, CSS
- **Frameworks/Tools**: OpenAI-Gym, OpenGL, Pytorch, MongoDB, Express.js, React, Node.js, MySQL, Git