

GAVI RAWSON

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ROS

Hadoop!

Illustrator

iOS Dev

Web Dev

Electron

SQL / NoSQL

UX Design

Android Dev

Game Dev

EDUCATION

COLUMBIA UNIVERSITY

M.S. in Computer Science • Vision, Graphics, Interaction, and Robotics Track • Expected December 2018

JOHNS HOPKINS UNIVERSITY

B.S. in Computer Science and Cognitive Science • May 2017 • 2 Dean's List Awards

RELEVANT COURSEWORK

Natural Language Processing, Computer Vision, Computer Graphics, Machine Learning, Computational Aspects of Robotics, Video Game Design, Graphic Design

EXPERIENCE

RESEARCH ASSISTANT • Columbia University Robotics Lab • 9/17 - Current Date

- Implemented website from scratch allowing spinal chord injury patients to interface with a robotic arm for grasping tasks.
- Website built using NodeJS, Express, RequireJS, and Mustache.
- Utilized ROS and roslibjs to write modular controllers, allowing input devices such as Alexa, sEMG device, and binary switch to communicate with the interface.

APPLE HEALTH SPECIAL PROJECTS • Software Engineer • 6/17 - 8/17

- Extended CareKit to support dynamic activities, animated encouragements, and reward system, thus improving provider-patient communication.
- Built end to end gaze detection app utilizing CoreML. App distributed amongst employees, collected data to improve CoreML models.
- Crafted 60 screen storyboard for Apple Watch + iPhone feature. Structured flow and script to appease both FDA and user concerns.

JOHNS HOPKINS UNIVERSITY • Algorithms Course Assistant • 9/16 - 12/16

- Graded assignments and held office hours to assist 70 students.
- Worked with professor and other course assistants to prepare assignments.

CORRIE HEALTH • Lead iOS Developer • 6/16 - 10/16

- Wireframed and programmed first cardiac CareKit app aimed at reducing hospital readmissions.
- Delegated tasks to iOS development team, and reviewed all written code before merging.
- Collaborated on-site with Apple, presented app to COO Jeff Williams and at app reviews to Vice President of Health and Health Special projects lead.
- App reduced readmission rate to zero for 50 participating patients at the Johns Hopkins Hospital and Bayview Medical Center.

PROJECTS

HAT FACTORY GAME • Shared on Github

- Assembled 2D platformer game using libSDL2 C++ bindings and component architecture.
- Designed character with five abilities, dynamic enemies, and four levels.

MAVI IOS APP • Hackathon

- Built crosswalk and crowd detector app aimed at aiding the blind in 48 hours.
- Utilized iOS Client, Flask backend, Haar and Cascading classifiers for crosswalk detection, and Microsoft's Emotion API for crowd and emotion detection.
- Top ten finalist, awarded best health project.

HOME DASHBOARD • Shared on Github

- Developed cross platform desktop application using Electron, Google Calendar API, and OpenWeatherMap API.
- Implemented common modules including monthly and daily calendar views, and weather forecast.
- Deployed on a Raspberry Pi and hooked up to a display for constant access.