Omar Alhait

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Education

Carnegie Mellon University
Electrical and Computer Engineering (Bachelor's of Science)   2015-2019

Experience

Research Assistant, Carnegie Mellon Robotics Institute   Aug. 2016-present
Pittsburgh, PA
- Collaborated with CMU Robotics Institute researchers in implementing swarm algorithms in iRobots and quadrotor drones
- Created a system to allow for iRobots to interact directly with each other through Bluetooth instead of communicating through a server
- Spearheaded a project which creates a connection between drones and iRobots, establishing the quadrotors as commanders and land robots as scouts

Teacher/Contributor, FreeCodeCamp   June-Sept. 2016
- Created programming activities and offered ideas to help cultivate the curriculum
- Debugged and improved current activities

Software Quality Intern, QLogic   July – Aug. 2013, 2014
Palo Alto, CA
- Reviewed and repaired a test case repository consisting of over 12,000 test cases and procedures for testing drivers of QLogic network host bus adapters.
- Helped Engineering Integration Test Team members in utilizing Quality Center for diagnosing and repairing failed test cases.

Web Developer, DailyCampus   July – Aug. 2015
- Worked remotely as a full-stack developer with upcoming startup DailyCampus
- Gained experience with tools including Firebase, HTML/CSS/JS, JQuery

Leadership

Founder, LearningCurve
- Founded LearningCurve, an educational website aimed at providing free help to underprivileged AP students
- Grew the website to receive 500+ active monthly users, with a tutoring team of over 30 stellar students.

President, MellonHeads
- Created MellonHeads, Carnegie Mellon's first club oriented towards attracting all students to hackathons
- Organized biannual talks to dispel the stigma surrounding hackathons, introducing them instead as the friendly and educational programming competitions they are
- Hosted monthly hack sessions to help members cultivate new ideas and work on existing hackathon projects

Projects

PictoCal
- Created an Android application that scans pictures of flyers and automatically inserts relevant event info into a Google Calendar event using computer vision algorithms

Skills

Programming Languages: Python, Java, C, JavaScript, HTML, CSS, JQuery
Frameworks/Services: Git, MongoDB, React, Bootstrap, Foundation 5, Materialize CSS