Hardy Pham

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EXPERIENCE

Shazam **July 2016 – September 2016**
Software Engineering Intern San Diego, California

- Using Laravel, I redesigned and reformatted the music submission infrastructure control panel
- Implemented an asynchronous upload system for music tracks, saving more than 20 hours of work per week
- Refactored backend APIs, resulting in reduced code complexity, and improved maintainability/readability
- Developed software fixes to bugs that were experienced on both the front-end and back-end

PROJECTS

ViaSat Inertial Guidance System (Python) **October 2016 – December 2016**

- Developed a system that improves the accuracy of ViaSat's residential satellite terminals
- Created a GUI that allows engineers at ViaSat to utilize the LSM6DS3 IMU sensor
- Designed new features, enabling advanced configurability of the sensor

Trivia Trip (HTML, CSS, JQuery) **September 2016 – October 2016**
http://TriviaTrip.herokuapp.com

- Built a trivia web app designed to help groups of friends pass time by on long road trips
- Implemented jService API to populate questions and color code them based on difficulty level
- Created a scalable interface, improving the users experience of the interface on a phone

Head Controlled Wheelchair (Matlab) **September 2015 – December 2015**

- Designed a wheelchair system for quadriplegic users that uses head motions to control the motor
- Programmed a MATLAB script to monitor head movements and utilize a serial interface to communicate with the motor
- Increased the image acquisition rate by 500%, resulting in a more stabilized motor

Micromouse (C) **November 2014 – June 2015**

- Collaborated with a team of six individuals to construct an autonomous robotic mouse that utilizes sensor readings and a flood-fill search algorithm to solve a 16x16 maze
- Designed a PID controller that analyzes multiple IR sensor inputs to minimize navigation error
- Assembled the robot with custom 3-D printed wheels and mounting components to allow various elements to smoothly interact with one another

TECHNICAL SKILLS

Languages: Python, HTML, CSS, JavaScript, PHP, C, Matlab, Verilog, Java
Tools: Laravel, jQuery, AJAX, MySQL, Vim, Git, Unix, NodeJS, Express, Jira, Crucible
Others: Object Oriented Design, Agile Methodology, Data Structures, Algorithms

EDUCATION

University of California, San Diego **March 2017**
Bachelor of Science, Electrical Engineering La Jolla, California