Vivian Shen

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LINKS

Github: @vhshen
Devpost: @vhshen

Linkedin:

@vhshen

SKILLS

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ems

Other

CSS

UNIX/Linux, RTOS Jira, Github

AWARDS

Microsoft Diversity Sponsorship (2018)

Facebook f8 Hackathon Fellow (2018)

Ada Lovelace Fellow (2017)

LEADERSHIP

Woodenfish Monastic
Program President (2019)

DevFest Hackathon Organizer (2016-2018)

CodePhil NonProfit
Coordinator (2018)

EDUCATION

Carnegie Mellon University

WORK EXPERIENCE

- PhD in Robotics

Columbia University

- BS in Computer Science

Class of 2019

GPA: 3.5

Started Fall 2020

Control Systems Intern @ Walt Disney Imagineering Spring 2020

Worked on the GUI for a HUD on an in-park ride system. Focused mainly on integrating the front and back end, as well as troubleshooting the ride.

Product Intern @ Conservation X Labs

Fall 2019

Lead software developer working on edge artificial intelligence frameworks and embedded systems products for conservation purposes

Research Volunteer @ San Diego Zoo Global

Fall 2019

Researching a smart computer vision system for autonomous animal monitoring.

Lab Associate @ Disney Research

Summer - Fall 2018

Worked on a research project creating software for a hybrid RF and computer vision system, focusing on the latter.

Robotics Intern @ NASA Jet Propulsion Lab Summer 2017

Designed and implemented all the electronics and programming for a mechanism on a Mars orbiter. Worked on improving sensor fusion for computer vision.

Researcher @ Creative Machines Lab Jan 2016 - May 2018

Designed, built, and implemented the nozzle system of a food 3D printer.

Computer Networks Head TA

Spring 2018

Head TA of Columbia's computer networks class, taught by Henning Schulzrinne.

PROJECTS

SmartTrax - Microsoft Prize @ Capitol360

June 2018

Built a flask web app that performs sentiment analysis on user inputted text and a list of song categories, and creates a soundtrack for the story.

Xperience - Finalist @ VHacks

March 2018

Built a VR live streaming app hosted on a Heroku server with a React frontend. 3rd place in the social inclusion category of the premier hackathon in the Vatican.

Smart Bike - Top 10 @ HackMIT

Sept 2017

Built an embedded systems kit that adds various tail-light/distance functionalities and computer vision/image recognition technologies to an average bike.

Piano Glove - 2nd Place @ PennApps

Jan 2017

Built a glove that plays the piano based on finger presses and uses ultrasonic range finding to emulate an invisible piano, outputting corresponding frequencies.