

Christina Ou

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EDUCATION

CARNEGIE MELLON UNIVERSITY

B.S. IN ELECTRICAL &
COMPUTER ENGINEERING
Minor in Computer Science
Expected May 2019
Cum. GPA: 3.74

THE PINGRY SCHOOL

2011 - 2015 | GPA: 4.1/4.3

COURSEWORK

Data Structures & Algorithms	[15-210]
Intro to Computer Systems	[15-213]
Digital Systems	[18-240]
Computer Security	[15-487]
Human Centered Software	[05-391]
Computer Vision	[16-385]
Mobile Robot Programming	[16-362]
Functional Programming	[15-150]
Signals & Systems	[18-290]

SKILLS

PROGRAMMING

Experienced:

Java • Python

Proficient:

JavaScript • C • SML • HTML/CSS •

SystemVerilog • Matlab

Familiar:

x86 Assembly • SQL • Swift • \LaTeX

LIBRARIES & PLATFORMS

React.js • Express.js • Node.js • jQuery •
Raspberry Pi • Arduino • iOS SDK

APPLICATIONS

Git • SVN • SolidWorks •
Adobe InDesign • IntelliJ

AWARDS

CMU Dean's List

2015, 2016

Pingry's NJSIAA Scholar-Athlete

Sole school representative for NJ

YMCA National Team Swimmer

National AP Scholar

EXPERIENCE

GODADDY | SOFTWARE DEVELOPER INTERN

May 2017 – Aug 2017 | Boston, MA

- Developed a microservice to monitor and update transactions and MySQL databases that match a given filter; created Docker container
- Completely refactored Afternic platform's forsale webpage from a PHP-Helium framework to a React, Express, and Node.js framework
- Deployed both projects to production, assisting the Transaction Services and providing a more responsive user landing page for sales

DECISIVE ANALYTICS | SOFTWARE ENGINEERING INTERN

May 2016 – Aug 2016 | Washington D.C.

- Created and worked a video analysis full-stack web application for detecting videos of law enforcement interest and associated users
- Incorporated machine learning and natural language processing algorithms such as support vector machines and sentiment analysis to classify video virality
- Utilized statistical topic modeling to filter videos and users by keyword search

RESEARCH

HUMAN-COMPUTER INTERACTION INSTITUTE

Research Assistant | Sep 2016 – Present | Carnegie Mellon University

Working with former CMU HCI Director Daniel Siewiorek to create a patient motion detection system using Raspberry Pi's and PIR sensors for nurses at a local hospital

PROJECTS

HEDGEY | WEB APPLICATION

Currently working on education application combining speech recognition and computer vision API's to teach pre-K children object identification

VIDEO OBJECT TRACKING | COMPUTER VISION PROGRAM

Implemented the Mean-Shift algorithm in MATLAB for CV course's final project; tracks objects that move in video sequences

TAILOR'D | MOBILE APPLICATION

Won Best Mobile Application at HackCMU. Utilizes user's clothing inventory from photos and generates outfits based on complimentary color palettes

LEADERSHIP & ACTIVITIES

ENGINEERS WITHOUT BORDERS | PROJECT LEAD | 2015 - PRESENT

Leading team of 10 to design and help implement a decentralized solar lighting system for vital community routes in Nyadire, ZI in August 2017

STUDENT SENATE | ACADEMIC AFFAIRS VICE CHAIR | 2015 - PRESENT

Representing the College of Engineering in our student government; implementing initiatives and policies related to faculty-student relations, registration, and mental health

MISCELLANEOUS

HS Swimming Varsity Co-Captain and Dance Team Co-Captain (2011-2015)

Society of Women Engineers Member (2015 - present)

Crossroads Red Cross Youth Council International Chairperson (2011-2015)