

Don Zheng

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EDUCATION

CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA

Aug 2013 - May 2017

MS: ELECTRICAL AND COMPUTER ENG

College of Engineering

GPA: 4.0/4.0

DUAL BS: ECE + ROBOTICS

College of Engineering

Robotics Institute

GPA: 3.7/4.0

University Honors

CONCORDIA INTERNATIONAL SCHOOL SHANGHAI

Shanghai, China

Aug 2009 - May 2013

COURSEWORK

GRADUATE

Machine Learning

Dynamic Optimization

Robot Manipulation

Sensors

Neural Signals Processing

Internet and Wireless Policy

UNDERGRADUATE

Artificial Intelligence

Computer Vision

Computer Graphics

Robot Kinematics

Control Theory

Embedded Systems

Parallel Computing And Arch.

Digital + Analog Circuits Design

SKILLS

Languages + APIs

C# • C++ • C • Python • Matlab • SQL

CUDA • OpenGL • SystemVerilog

Technologies

Machine Learning • Computer Vision

Robotics • Hardware Prototyping

Arduino • RaspberryPi

OTHER

Teaching

Johns Hopkins - CTY Electrical Eng TA

Carnegie Mellon - Robotics TA

Concordia High School - Intro Programming.

Game Theory Instructor

Societies

National Endowment for the Humanities

Eta Kappa Nu - Sigma Chapter

EXPERIENCE

MICROSOFT | SEATTLE, WA

Software Engineer | Azure IoT Central | Mar 2019 - Present

- Created Azure IoT Edge Python module to enable Modbus Gateway for IoT Central devices
- Added additional dev environment support for IoT Central on ESP32 devices

Software Engineer | Azure Data Factory | Jan 2018 - Mar 2019

- Designed and implemented system to migrate assets to a lower cost service, reducing COGS by 40%
- Enabled use of special characters in the product through string encoding
- Worked with partner teams to enable tight autoscaling on dependent services, further reducing COGS
- Owner and SME of one of the four major services of the product
- Worked directly with customers in livesite scenarios

QIMING VENTURE PARTNERS | SEATTLE, WA

Analyst Intern | Sept 2017 - Dec 2017

- Created landscape analysis of the digital health field in the US and China
- Performed technical due diligence on potential portfolio companies

MICROSOFT | SEATTLE, WA

Software Engineer Intern | Azure Data Factory | Jun 2016 - Aug 2016

- Created capacity forecasting dashboard using time series forecasting (ARIMA)
- Added integration for multiple input datasets when using Data Factory with Azure Machine Learning

NEBULUS AUDIO | PITTSBURGH, PA

Software Engineer Intern | Jun 2015 - Aug 2015

- Developed system to determine genre of a piece of music - used Bayesian classification, clustering, and frequency-domain feature analysis

NOTABLE PROJECTS

LineBot | Github: bit.ly/2vajk4c

Multi-agent robot system for drawing large-scale illustrations on the ground.

RoboGoalie | Github: bit.ly/1QPAunO

Robotic 2-axis air hockey goalie with vision-based puck detection

Cache Simulator | Github: bit.ly/1Z5FdrB

Cache coherency simulator using MSI, MESI, and MOESI protocols

Zen Sandbox | Github: bit.ly/1TN97iH

Interactive sandbox with a dynamic, projected elevation map and hidden actuators to change the landscape

PUBLICATIONS

- [1] G. Zeglin, A. Walsman, L. Herlant, D. Zheng, Y. Guo, M. Koval, K. Lenzo, H. J. Tay, P. Velagapudi, K. Correll, and S. Srinivasa. Herb's sure thing: a rapid drama system for rehearsing and performing live robot theater. *IEEE Workshop on Advanced Robotics and its Social Impacts*, 2014.
- [2] D. Zheng, A. Walsman, L. Herlant, G. Zeglin, and S. Srinivasa. Herb the robot butler in david ives' sure thing. *HRI Workshop on Enabling Rich, Expressive Robot Animation*, 2015.