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 | SOFTWARE ENGINEER, AZURE DATA FACTORY
Jan 2018 - Present | Seattle, WA
- Designed and implemented system to migrate assets to a lower cost service, reducing COGS by 40%
- Enabled use of special characters in the product by encoding and decoding all inputs using Base64
- 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
- Demonstrated passion and professionalism working directly with customers and with support engineers in livesite scenarios

QIMING VENTURE PARTNERS | ANALYST INTERN
Sept 2017 – Dec 2017 | Seattle, WA
- Created landscape analysis of the digital health field in the US and China
- Performed technical due diligence on:
    - a web health company, analyzed their web stack (AWS) and created a report for managing partners
    - a robotics company, created a feasibility report of their technology

MICROSOFT | SOFTWARE ENGINEER INTERN, AZURE DATA FACTORY
Jun 2016 - Aug 2016 | Seattle, WA
- 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 | SOFTWARE ENGINEER INTERN
Jun 2015 - Aug 2015 | Pittsburgh, PA
- Developed a machine learning model to determine the genre of a piece of music, incorporating 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.