Jonathan Wang

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**Education**

Arizona State University – Tempe (Aug 2015 – May 2020)

BA Mathematics

BS Economics

**Work Experience**

RemoraCarbon

Software Engineer – Controls 05/2022 - 08/2023

* Set up test setups to ensure accurate and complete tests for every subteam
* Creation and diagnosis of CAN bus/networks and power lines on the device
* Automated the process of translating CAN data into engineering units and allowed subteams to see real-time data

dBControl

*Software Engineer* (40 hrs/wk) 11/2021 - 03/2022

IT Intern 06/2021 - 11/2021

* Assisting IT department by backing up servers and installing new laptops
* Setting up and deploying an internal database
* Creation of python scripts to automate data-checking as well as data-fixing

Varsity Tutors November 2016 – May 2020

*Individual Tutor (Avg. 3 hrs/wk)*

* Assisting elementary through college students nationwide with academic courses
* Enhancing communication skills by learning to convey material in multiple ways
* Tutoring subjects include: HTML, Java, C/C++, Mathematics (Multiplication and Division to Linear Algebra), Microeconomics, Macroeconomics, and Mandarin

Integrated Device Technology, Shanghai Co. Ltd. May 2018 – July 2018

*Test Intern*

* Developed Python script to increase automation and improve overall IC testing of the Registered Clock Driver (RCD), SPD Temperature Sensor, and Data Buffer (DB) chips on the DDR5
* Incorporated personalization features to decide which tests to run and collect data on, as well as how much to sweep the input
* Compiled and organized test results from CSV data into Excel charts and graphs
* Quickly adapted into environment by understanding then optimizing the existing test procedure through software
* Debug testing environments in Redhat, MacOS, and Windows

**Skills**

* *Programming Languages:* C/C++, Java, JavaScript, Assembly, Prolog, Python, Node.js
* *Markup Languages:*CSS, HTML
* *Operating Systems:*Unix, Windows, RedHat, Mac OS, Linux Debian
* *Languages:*Fluent in English and Mandarin
* *Software:* Excel, Stata, Matlab, Git, SQL, NoSQL**,** PostGreSQL
* Networks/Communication: J1939, CAN, RS485
* Repository: https://www.github.com/jonathanwang375

**Projects**

Hate Crimes

* Analyzed the correlation between geographical, socio-economics factors with hate crime statistics in 2016
* Used Excel and Stata to compile and generate the results

Compiler

* Wrote C++ programs to mimic a compiler with complete syntax rules (if-else, for and while loops)

Dictionary

* Part of a group project to create a dictionary-like program in Java
* Created full-scale drafts with GANTT charts, use-case diagrams, as well as sequence diagrams

Video Stream

* Using gstreamer to send h264 videos from raspberry pi to AWS cloud and then to other raspberry pis
* Created a UI interface to initiate, accept and disconnect video calls.

**Online Competitions:**

* Kaggle: jwang420
* Project Euler: jwang375
  + Solved 29 problems
* Facebook Hacker Cup: jwang375
  + 2021: Passed Qualification Round, Eliminated in Round 1
* Leetcode: jwang375
  + Solved 101 problems
    - Solved 50 out of 330 math problems
  + Participated in 5 contests

**Certificates:**

* Kaggle: Python, Intro to Machine Learning, Pandas, Intermediate Machine Learning, Data Visualization, Feature Engineering, Intro to SQL