HARVEY WANG

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EDUCATION

PRINCETON UNIVERSITY
PRINCETON, NJ • MAY 2024
B.S.E in Computer Science
GPA: 3.92/4.0

PARSIPPANY HILLS HIGH SCHOOL
PARSIPPANY, NJ • JUNE 2020
Valedictorian

COURSEWORK

Computer System Design
Probability & Stochastic Systems
Intro to Machine Learning
Adv. Programming Techniques
Algorithms and Data Structures
Intro to Programming Systems
Reasoning About Computation
Intro to Data Science
Fundamentals of Statistics
Linear Algebra
Multivariable Calculus

SKILLS

Proficient in: Python, Java, C, SQL, MATLAB, R, HTML/CSS, JavaScript, Firebase, Swift

Experience with: React, Git, Kotlin, Bootstrap, Assembly

Fluent in: Mandarin, Spanish

SERVICE

ST. CLARE'S HOSPITAL
Front desk and patient transport (200+ hours)

MORRIS CHINESE ACADEMY
English instructor for grandparents (200+ hours)

EXPERIENCE

TRUETOFORM • *SOFTWARE INTERN* • DECEMBER 2021 – PRESENT
- Developed improvements to alignment algorithm to produce more accurate 3D avatar models for apparel designers
- Revamped interactive user dashboard interface using React

ALGS. & DATA STRUCTURES • *COURSE ASSISTANT* • SPRING 2021 – PRESENT
- Facilitated student discussion and answered questions in weekly precepts
- Hosted weekly office hours for aiding students with coding assignments

ES SYSTEMS, GREECE • *SOFTWARE INTERN* • SUMMER 2021
- Used motor vibration data to forecast manufacturing machinery failures
- Developed data analysis methods for extracting features in MATLAB

PROJECTS

NOWW • *PRINCETON UNIVERSITY* • 2021 – PRESENT
- Published iOS app for inviting nearby friends to spontaneous meetups
- Developed backend to manage event and user data with Flask and Firebase

RESEARCH ASSISTANT • *PROF. GIANLUCA VIOLANTE (PRINCETON)* • 2021
- Web scraped data on soccer players, coaches, and teams in Europe's top leagues to analyze frictions in European labor markets
- Developed system for cross referencing data from different sites

NJ GOVERNOR SCHOOL OF ENGINEERING & TECH • *RUTGERS UNIVERSITY* • 2019
- Developed system to assess handwashing procedure with computer vision
- Presented *"A Vision-Based Hygiene Monitoring System: Applying Deep Learning to Evaluate Handwashing Procedure"* at IEEE MIT Research Technology Conference

SECONDARY STUDENT TRAINING PROGRAM • *UNIVERSITY OF IOWA* • 2018
- Analyzed genomic patterns of Huntington's disease patients with R
- Presented *"Huntington's disease: Analysis of trinucleotide repeat MIP data"* at NJ Junior Science & Humanities Symposium

ACTIVITIES

REHACK PRINCETON • *CO-DIRECTOR* • 2020 – PRESENT
- Led 20 team members to organize annual hackathon with 100+ participants
- Met with industry and company leaders for sponsors and speakers

PRINCETON COS COUNCIL • *ACADEMIC CO-CHAIR* • 2021 – PRESENT
- Worked with professors to improve office hour experience
- Organized mentorship program and student-professor interaction events
- Helped revamp undergraduate TA program for COS department