# HARVEY WANG

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## OBJECTIVE

Eager aspiring computer scientist passionate about solving problems with technology. Interests in software development, machine learning, and computer graphics.

## EDUCATION

**PRINCETON UNIVERSITY**
**PRINCETON, NJ • MAY 2024**
B.S.E in Computer Science
GPA: 3.94 / 4.00

**PARSIPPANY HILLS HS**
**PARSIPPANY, NJ • JUNE 2020**
Valedictorian

## COURSEWORK

Algorithms and Data Structures *
Intro to Programming Systems
Reasoning About Computation
Intro to Data Science
Intro to Machine Learning ^
Adv. Programming Techniques
Computer Graphics
Computer System Design
Economics and Computing

* = Course Assistant
^ = Grader

## SKILLS

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

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

Fluent in: Mandarin

## EXPERIENCE

**LAIYE** • ***SOFTWARE DEVELOPER INTERN*** • **SUMMER 2022**
- Developed Python scripts to automate an end-to-end process mining procedure from data extraction to updating dashboard visualizations (ETL)
- Programmed Lark bots to automatically produce business opportunity reports

**TRUETOFORM** • ***SOFTWARE INTERN*** • **WINTER 2021 – 2022**
- Developed improvements to alignment algorithm to produce more accurate 3D avatar models for apparel designers
- Added interactive controls to user dashboard interface using React

**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

**GLIDER** • ***PRINCETON UNIVERSITY*** • **SPRING 2022**
- Created an interactive infinite glider game with procedurally generated terrain
- Implemented terrain/biome generation, collision detection, and player controls

**NOWW** • ***PRINCETON UNIVERSITY*** • **2021 – 2022**
- Published iOS app for inviting nearby friends to spontaneous meetups
- Developed backend to manage event and user data with Flask and Firebase

**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 IEE MIT Research Conference

## OTHER EXPERIENCE

**PRINCETON COS COUNCIL** • ***PRESIDENT*** • **2021 – PRESENT**
- Led a team of 10 students and closely interacted with department coordinators
- Worked with professors to improve office hour experience
- Organized mentorship program and student-professor interaction events

**REHACK PRINCETON** • ***CO-DIRECTOR*** • **2020 – 2022**
- Led 20 team members to organize annual hackathon with 100+ participants
- Collaborated with company leaders to arrange for sponsors and speakers

**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