WARREN YUN

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EDUCATION

Bronx High School of Science 2020-2024

Captain of FRC Team 1155, AtomHacks Committee Head of Programming, Scioly, Desktop Robotics. Coursework: AP Calculus BC, AP CS A, AP Physics 1, AP Language and Composition, AP Statistics, AP Psychology, Honors Algebra 2/Trigonometry

WORK

MIT BWSI Embedded Security | Alum | TA ..... Summer '22 + '23

- Gained experience with embedded systems and low level programming
- Learned several different cryptographic functions such as AES, ECC, and RSA
- Built a firmware distribution system that securely exchanged data as the final project
- Developed software for the course to allow students to easily submit labs, and for instructors to easily monitor student progress
- Helped create and develop lesson content and labs for the course

SteamWorks | Robotics Mentor 2022-Present

- Programming mentor for FTC Teams 22518 and 18657
- Taught rookie teams how to use FTC's robotics library to write teleoperated/autonomous robot code
- Taught teams core concepts related to control theory and code structure

King of The Curve | Web Dev Intern 2022

- Designed the structure of the web version of the application
- Taught other interns how to write frontend/backend code
- Added new features to their custom API with Go

Lumiere | Technology Product Manager 2021

- Used Next.Js and Prisma to implement core functionalities
- Implemented convenient posting features for users
- Used TailwindCSS to improve UI/UX

PROJECTS

eScout 2022-Present

A web app designed to assist FRC teams with scouting during competitions. Provided intuitive scouting UIs along with built-in graphs, analytics, and match filtering. Built using Typescript, Next.js, TRPC, and Prisma. https://github.com/SciBorgs/eScout

Initialization Vector.....2023

Lab submission system built for MIT BWSI's Embsec course. Allows students to submit unique "flags" obtained from CTF-like labs within the course through netcat and TCP. Built using Next.js, TRPC, Prisma, and Go. https://github.com/NebuDev14/initialization-vector

SOS 2022

A collaborative project to build a minimalistic operating system meant to be run on a Raspberry Pi 4. Implemented the global data dynamic memory allocator and heap allocator in C. https://github.com/jakejack13/sos

AWARDS

- FIRST Robotics Dean's List Semi-Finalist (Feb 2023)
- MLH Surprise Hacks 1st Place Overall (April 2021)
- HackKU 3rd Place Health Track (April 2021)
- Detector Building 5th Place @ NYSO Regionals (Feb 2022)
- Cybersecurity 5th Place @ OHSO (2022)
- AP Scholar with Distinction (2023)

- Full-stack web development
- Robotics + Control Theory
- Embedded Systems
- Cryptography
- UI + UX
- Electronics
- Leadership + Teamwork
- Video + Audio Editing