Thomas J. Pickup

tpickup@umich.edu ● (914) 356-7228 ● 221 North Salem Rd ● Katonah, NY 10536

Education

University of Michigan, Ann Arbor, MI **April 2022**
Bachelor of Science in Engineering in Computer Science, Minor in Mathematics

GPA: 3.52/4.0
Awards - Dean's List, University Honors
Related coursework: Programming and Introductory Data Structures, Discrete Math, Data Structures and Algorithms
Current coursework: Database Management Systems, Computer Architecture, Foundations of Computer Science

John Jay High School, Cross River, NY **June 2018**

GPA: 97/100
Awards - National AP Scholar, National Honor Society
Related coursework: Computer Science A, Computer Science principles

Technical Skills

Programming Languages: Java, C++, Python
Basic knowledge: JavaScript

Software: Git, Google AdWords
Basic knowledge: MATLAB, CAD

Experience

TWST Events **May 2019 - August 2019**
Marketing Intern
- Brought in house the Google Adwords search/display campaigns for conferences by setting up ads and keyword terms.
- I implemented and taught the marketing team to use and optimize campaigns.
- Resulted in reduced in marketing budget and increased conference attendance.

Edu Tek **May 2018 - June 2018**
IT Intern
- Provided tech support for teachers at schools in the district.
- Upgraded hardware throughout school district by installing SSD drives in computers.
- Set up and maintained classroom connectivity to schools' networks.

Rising Stars **September 2015 - May 2018**
Coach
- Promoted healthy behavior among kids with disabilities by leading hour-long sport sessions. Set up drills and activities to engage the kids as much as possible.
- Strove to be a mentor and friend for the 30 kids.

Projects Experience

Data Structures and Algorithms (EECS 281) **Fall 2018**
- Solved a series of complex algorithmic problems in C++.
  - E.g. backtracking, branch and bound (TSP), and Dynamic Programming
- Main challenge was optimizing solutions within strict runtime and memory constraints.

Evaluating Viability of Singular Value Decomposition in Predictor System **Spring 2018**
- Applied Singular Value decomposition to predict surveyed student movie ratings.
- Predicted human action 80% more accurately than random assignment.

Autonomous Drone Flight **Fall 2018**
- Utilized sensors, closed-loop feedback systems, and filters to autonomously program a drone through an obstacle course.

Robotics FTC First **September 2017 - May 2018**
Lead Programmer
- Programmed manual and autonomous controls for the robot to perform various tasks.
- Organized the team and coordinated with hardware team.
- Placed in Super Regional round of the FTC FIRST Tech Challenge Tournament.

Columbia University, New York, NY **Summer 2017**
Student During Summer Semester (Course Grade: A)
- Coursework: Introduction to Computing for Engineers and Applied Scientists (in Python).