YIDUO KE

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GitHub: yiduoke

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EDUCATION

Cornell University

B.S. in Computer Science (GPA: 3.8) *class of 2021*

Object-Oriented Programming and Data Structures ⋄ Introduction to Analysis of Algorithms ⋄ Functional Programming in OCaml ⋄ Machine Learning ⋄ Computer Vision ⋄ Artificial Intelligence ⋄ Introduction to Computational Complexity ⋄ Probability Models and Interference ⋄ Linear Algebra ⋄ Discrete Mathematics

Stuyvesant High School *2014 - 2018*

Computer Graphics ⋄ Systems Level Programming ⋄ Software Development ⋄ AP Computer Science

WORK EXPERIENCE

Teaching Assistant *January 2020 - present*
Cornell University CIS Department *Ithaca, NY*

- Holding office hours to assist students in understanding course material and do homework
- Answering students' Piazza questions regarding course material
- Attending grading sessions to grade students' assignments and exams

Undergraduate Researcher *February 2020 - present*
Cornell University CIS Department *Ithaca, NY*

- Researching semi-autonomous to fully-autonomous image processing and machine learning methods to identify cell features indicative of centrosome amplification

IT Intern *July 2019 - August 2019*
NYC Department of Health and Mental Hygiene *Queens, NY*

- Re-imaged PCs and upgraded their operating systems
- Deployed PCs

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

Stuyvesant Science Olympiad *2016 - 2018*
Event Leader *New York, NY*

- Optics 9th place at New York Metropolitan Regional Competition
- Materials Science 5th place at New York Metropolitan Regional Competition
- Trained our school's optics event competitors

StuyNaught - Stuyvesant's Zero Robotics Team *2016 - 2018*
Programmer *New York, NY*

- Worked together with teammates to program our robot in the annual MIT coding competiton sponsored by NASA
- 2016-2017 season finalist
- 2017-2018 season world champion in alliance with an Italian team and another American team

StuyHacks 5: Honorable Mention *2018*

- Project in Processing that turns live camera feed into different styles of art

TECHNICAL SKILLS

Languages	Python, Octave, OCaml, Java, C, C++
Front-end skills	HTML/CSS/Bootstrap, JavaScript/jQuery/D3.js
Back-end frameworks	Flask
Databases	MySQL/SQLite/MongoDB
Tools	Git, Linux(Ubuntu)