

# Andy Xiao

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## EDUCATION

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### University of Pennsylvania – School of Engineering & Applied Science

Philadelphia, PA

B.S.E., Computer Science

Expected May 2022

- Coursework: Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Programming Languages & Techniques, Theory of Computation

### Thomas S. Wootton High School

Rockville, MD

Graduate of *Science Technology Research Scholars Program*

4.81 (W)/4.00 (UW)

- Coursework: AP Computer Science A, AP Physics C: Mech. & EM, AP BC Calculus, Multivariable Calculus
- Honors: National AP Scholar
- Test Scores: ACT: 35, SATII Math II: 800, SATII Physics: 800

## PROFESSIONAL EXPERIENCE

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### Orion, Software Developer, Philadelphia, PA

Oct. 2018 – Present

- Working closely with founders of home entertainment startup. Implementing Node server API with MySQL database to handle login registration pipeline.
- Developing React Native front-end to allow users to login, signup, and interact with server API to alter user settings.

### Mayo Clinic, Research Intern, Scottsdale, AZ

Summer 2016

- Conducted research on cellular heterogeneity and analyzed embryonic stem cell gene expression data.
- Utilized R Programming to perform statistical analysis on single cell expression data, investigating causes for cell-to-cell differences.
- Identified two gene sets representing greatest and least difference in expression levels and associated genes to biological pathways.

## LEADERSHIP EXPERIENCE

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### Wootton Varsity Tennis Team, Captain

2014 – 2018

- Three-time County Champions, Four-year Varsity Starter, Maryland Scholar Athlete Award

## PROGRAMMING SKILLS

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- **Languages:** Java, HTML/CSS, JavaScript, OCaml, Swift, SQL, LaTeX, R Programming
- **Dev. Technologies:** React, React Native, Node, Git

## AWARDS & ACHIEVEMENTS

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- Recipient of the Certificate of Meritorious Service Award (260+ Community Service Hours) 2018
- Recipient of the Governor's Merit Scholastic Award (Top 5% GPA) 2018
- 6<sup>th</sup> Place, University of Maryland Programming Competition (Teams) 2017
- 3<sup>rd</sup> Place, Montgomery College Programming Competition (Pairs) 2017