

Andy Xiao

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EDUCATION

University of Pennsylvania – School of Engineering & Applied Science

Philadelphia, PA

B.S.E., Computer Science

Expected May 2022

- Coursework: Data Structures & Algorithms, Discrete Math, Linear Algebra, Prog. Languages & Techniques, Theory of Computation, Multivariable Calculus

Thomas S. Wootton High School

Rockville, MD

- Honors: National AP Scholar, Governor's Merit Scholastic Award (Top 5% GPA) 4.81 (W)/4.00 (UW)
- Test Scores: ACT: 35, SATII Math II: 800, SATII Physics: 800

PROFESSIONAL EXPERIENCE

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

June 2016 – August 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.

PROJECTS

Spaceship Attack

github.com/andyxiao1/spaceship-attack

- (Java Swing) Developed a spaceship shooter game with multiple screens, File IO to keep track of levels and high scores, collision detection, data structures to store the objects on screen, and a class hierarchy for game objects.

Conway's Game of Life

github.com/andyxiao1/game-of-life

- (React) Recreated Conway's game of life to simulate cellular automaton. Allow users to select the cells they want to be alive, keep count of the generation, and iterate through generations.

PROGRAMMING SKILLS

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

AWARDS & ACHIEVEMENTS

- Recipient of the Certificate of Meritorious Service Award (260+ Community Service Hours) 2018
- 6th Place, University of Maryland Programming Competition (Teams) 2017
- 3rd Place, Montgomery College Programming Competition (Pairs) 2017