

Andy Xiao

Rockville, MD

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EDUCATION

University of Pennsylvania – School of Engineering & Applied Science May 2022
B.S.E., Computer Science 3.58/4.00

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

Thomas S. Wootton High School May 2018

- 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.
- Wrote JUnit tests to ensure that the model of the game was working correctly.

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

- 6th Place, University of Maryland Programming Competition (Teams) 2017
- 3rd Place, Montgomery College Programming Competition (Pairs) 2017