Sam Alston

732-547-3519 | sza6@cornell.edu | linkedin/sam-alston | github/samalstonn

EDUCATION

Cornell University   Ithaca, NY
Bachelor of Arts in Computer Science, Minor in Mathematics   *Aug 2021 – May 2025*
- GPA: 3.5
- Relevant Coursework: Functional Programming and Program Correctness, Object Oriented Programming and Data Structures, Linear Algebra, Discrete Structures, Web Design and Programming, Statistics

PROJECTS

Mapping Zipcodes | *Python, Atom, Git, Matplotlib, pandas*   December 2021 – February 2022
- Developed application to map zip-codes onto map of the United States
- Formatted with clean GUI for users
- Pulled from excel spreadsheet using online libraries

Sports Ranking System | *Python, VS Code, Git*   May 2022 – June 2022
- Developed a ranking system for collegiate rowing teams
- Extrapolated online results from the regular season to predict results in the championship season
- Developed a formula using Ordinary Least Squares (OLS) technique utilizing factors such as weather, recency of the race, home advantage to quantify teams evenly

ASCII Dungeon Game | *OCaml, Core, VS Code, Git, Dune, OPAM*   May 2022 – June 2022
- Developed game engine for retro-style to read .json dungeon files
- Read user input commands to move player, battle, collect items, etc.
- 1200+ lines of code with two team members, developed teamwork and large scale project skills
- Worked with creating documentation, .json, .txt, interface, and testing files

Space Invaders | *Python, Atom, Git*   November 2021 – December 2021
- Built a modern version of Space Invaders from scratch in Python
- Ingrained object-oriented programming skills
- Organized code with controller and sub controller model

TECHNICAL SKILLS

Languages: Java, Python, OCaml, SQL, JavaScript, HTML/CSS
Frameworks: React, JUnit, OUnit, Dune
Technologies: Git, VS Code, Atom, Eclipse
Libraries: NumPy, pandas, Matplotlib, Core, PyExcel

LEADERSHIP AND ACHIEVEMENTS

- D1 Varsity Athlete - Lightweight Rowing (Member of the 1st Varsity Boat 2022)
- Big Red Leadership Institute - Member
- AP Scholar with Honor x 3
- 1520 SAT (790 Math, 730 Reading/Writing)