

OBJECTIVE Seeking a creative group that will imbue me with the resources, skills, and network to effect change.

EDUCATION

Princeton University (9/2018 - 6/2022)
GPA: 4.00 / 4.00
Major: Computer Science (CS)
Minor: Statistics and Machine Learning (SML)
Awards: Shapiro Prize for Academic Excellence
Coursework:
- Intro to Data Science
- Algorithms & Data Structures
- Probability & Stochastic Systems
- Mathematics for Machine Learning
- Linear Algebra w/ Applications
- Intro to Programming Systems
- Advanced Programming Techniques

JFK Memorial HS (9/2014 - 6/2018)
GPA: 4.33 / 4.33
Awards: Valedictorian, National AP Scholar,
Student Body President, Mr. JFK
Coursework: Calculus, Statistics, Physics

TECHNICAL SKILLS (desc familiarity)
Programming Languages
Python • Java • C • Go • JavaScript • R • ARMv8
Design / Markup
HTML5 • LaTeX • CSS3 • Bootstrap 4 • bulma.io
Database Management Systems / Tools
SQLAlchemy • SQLite • PostgreSQL • MongoDB
Web Application Tools
Flask • Jinja2 • Heroku • Express • Pug • AWS
Miscellaneous
Microsoft Office • numpy • Google API Console

MEMBERSHIPS

Princeton PUZZLES
Treasurer (9/2018 - present)
Raise and manage \$6000 + company swag annually to host Princeton Puzzle Hunt.

Princeton Community Projects Studio
Computing Mentor (9/2019 - 3/2020)
Made weekly visits to nearby grade school to help students of underrepresented minorities learn computer science.

Princeton Guitar Club
Treasurer (11/2019 - present)
Seek funding, reserve practice space, and schedule performances for newly-founded club.

WORK EXPERIENCE

U.S. Air Force (AF) Detachment 12: Kessel Run (6/2020 - 8/2020)
Software Engineering (SWE) Intern
Node.js • Visual Studio • GitLab • Geospatial Data • Legacy Software
Refurbished JS web app that distributes map data with newer software.
Researched COVID effects on AF; presented findings and suggestions.

Princeton University Computer Science Dept (9/2019 - present)
Peer Tutor & Lab Teaching Assistant
Java • C • ARMv8 (Assembly Language) • Machine Language • Debug
Assist students in introductory programming courses to debug.
Upheld responsibilities during COVID pandemic through use of Zoom.
Provide 1-on-1 on-call tutoring in Algorithms and Data Structures.

Pratt & Whitney (6/2019 - 8/2019)
Digital Technology Leadership Program Intern
Oracle PL/SQL • Automation • Workflow Software • Microsoft SSRS
Set up real-time reporting on shop floor operations w/ Microsoft SSRS.
Researched low-power, cheap alternatives to PLCs used on shop floor.
Streamlined service requests with United Technologies Corp software.
Wrote SQL scripts to automate data transformation from Excel to Oracle PL/SQL tables to be used by company scheduling software.

PROJECTS (more details available on anthonyshein.com)

Game21 (7/2020)
Go (Golang) • Reinforcement Learning (RL) • No 3rd-Party Code
Implemented environment for simple two-player game and trained agent to play game using RL; learned optimal strategy in 10⁶ games.

APSA Matcher (6/2020)
Python • Google API Console • Healthcare • Code for URM • Automation
Worked w/American Physician Scientists Association to match student underrepresented minorities to principal investigators for summer.

Lingo Plinko (6/2020)
JavaScript • MongoDB • Heroku • Express • Pug • Sockiet.io
Developed online, responsive, 2-player game for COVID virtual bonding.

MealQueue (4/2020)
Python • SQLAlchemy • Flask • Bootstrap • Project Management/Leader
Led full stack development team to create three-tiered web application for online-ordering for Princeton University Dining Services program.

Gin Rummy EAAI Research Challenge (7/2020)
Python • Java • Reinforcement Learning (RL) • Research • Game Theory
Translated Java to Python to create RL CFR agent to play Gin Rummy.

Zage Operational Tools (5/2020 - present)
Python • Google API Console • Automation • Startup • Client Relations