

SAM ARONSON

sa.maronson.co

saronson@haverford.edu

612-987-7900

EDUCATION

Haverford College: Haverford, PA

Expected Graduation: May 2022

Computer Science and Philosophy Major

GPA: 3.8/4.0

Relevant Coursework: Compiler Design, Analysis of Algorithms, Principles of Programming Languages, Linear Algebra, Intermediate Microeconomic Analysis, Real Analysis, Philosophy of Mind

TECHNICAL EXPERIENCE

Teaching Assistant, Haverford College Computer Science Department

June 2020-Present

Assisted students in introductory and intermediate coursework as a TA for Principles of Programming Languages (C++ and Racket) and Microeconomic Analysis (Python). Worked to develop lab curriculum and assignments for course.

AI Intern, Karner Blue Capital

January 2021

Investigated how an investment firm can use machine learning technologies to support research and investment decision making. Collaborated with a team of students and experts in machine learning and finance.

Machine Learning Researcher, University of Minnesota

Summer 2017

Predicted risk of cardiotoxicity in breast cancer patients using supervised machine learning algorithms at the Institute for Health Informatics. Developed model using R and extraction from MySQL databases. Selected to present work at the American Medical Informatics Association's Annual Meeting.

FIRST Robotics Competition Team Co-Captain, Breck School

2016-2018

Led a team of 30 students to develop a robot codebase in Java while interfacing with multiple separate APIs to autonomously complete various challenges. Each season programmed a codebase of 5000+ lines using an object-oriented paradigm. Implemented advanced version control using git.

SELECTED PROJECTS

Contact Journal

August 2020

Created web app concept in ReactJS to assist private journaling their close contacts for COVID19 contact tracing.

Tiger Compiler

Spring 2020

Implemented compiler for the implicitly typed Tiger language in C++ using bison and flex. Explored concepts such as implicit typing and lexical scoping using techniques such as object-oriented programming and recursive design.

Tri-College Hackathon Winner, Haverford Innovations Program Hackathon Winner

October 2019

Developed a bilingual game concept in 24 hours using the Unity platform to teach young children the fundamentals of financial literacy. Received first prize and people's choice award.

ADDITIONAL EXPERIENCE

BLAST Chief Technician, Haverford College

2020-Present

Co-lead group providing technical sound and lighting needs to student groups on campus. Manage staff of 25+ and provide technical training sessions. Oversee major events including annual music festival Haverfest.

Customs Person Committee Co-Head, Haverford College

Spring 2020-Fall 2020

Trained and advised students who live with first years to support their college transition. Developed training curriculum and adapted program to meet the challenges of COVID-19. Additionally, organized class-wide events during orientation.

Customs Person, Haverford College

Spring 2019-Fall 2020

Served as a Customs Person for 20 first-year students facilitating orientation and living with them to create an inclusive and welcoming hall environment. Managed resident concerns and resolved conflicts between first years.

Admissions Office Fellow and SAAC Member, Haverford College

2019-Present

Lead tours on behalf of the admissions office. Assists in hiring and training of new fellows.

Camp Counselor/Advocate, Camp TEK0

Summers 2018-2019

Provided a positive summer camp experience to campers in day and overnight camp settings. Led programming. Worked one-on-one in an overnight setting with a camper with high emotional needs.

Co-Captain Intramural Tennis, Haverford College

2019-Present

TECHNICAL SKILLS

Languages (In order of proficiency): Python, Racket, Javascript, C++, Java, SQL, PHP

Technologies: git, Linux (ubuntu), MacOS, ReactJS, nodeJS, MySQL, bash, bison, flex