

Philadelphia, PA

□ (+1) 919-867-1207 | **S**ishaanr@seas.upenn.edu | **S**ishaan-rao I ishaanr21

Education

University of Pennsylvania

Philadelphia, PA

B.S.E. IN COMPUTER SCIENCE

Aug. 2017 - Present

• Data Structures and Algorithms, Mathematical Foundations in Computer Science, Calculus III, Engineering Probability, Principles of Physics I: Mechanics and Wave Motion, Principles of Physics II: Electromagnetism and Radiation, Managerial Economics, Programming Languages and Techniques I

North Carolina School of Science and Mathematics

Durham, NC

HIGH SCHOOL

Aug. 2015 - May 2017

- Research in Computational Science, AP Chemistry, Computational Physics, Group Theory, Graph Theory, Game Theory and Combinatorics, Mathematical Modeling, Python, Java
- Co-authored R Programming Manual: Case Studies Using the R Programming Language
- GPA: 5.663/5.0 (weighted)

Experience

Genesys Durham, NC

SOFTWARE ENGINEERING, TEST INTERN

May. 2018 - Aug. 2018

- · Design, build out, and execute automated testing to complement Genesys' scalable, cloud-based web architecture
- Implement automated testing throughout Genesys' products and software such as PureCloud

The Daily Pennsylvanian Philadelphia, PA

WEB DEVELOPER • Develop and maintain the website of the Daily Pennsylvanian (thedp.com) and engage in data journalism

· Produce independent project pages and internal tools using Python, JavaScript, and HTML/CSS for use by other departments

UPenn Access Engineering Philadelphia, PA

INSTRUCTOR, WEBMASTER

Sep. 2017 - Present

Jan. 2018 - Present

- · Teach computer science, mechanical engineering, bioengineering, and electrical engineering workshops to inner city high schoolers in Philadelphia
- Maintain and update the website to reflect lesson plans and other logistical information
- Develop engineering tutorials and lesson plans targeted toward high school students

NBA Hackathon: Business Analytics Track

New York, NY Sep. 2017

PARTICIPANT

· Invited to compete alongside a select group of students from universities across the United States

- · Developed an algorithm to predict the entertainment value of a given NBA game using data from previous NBA games
- Trained model using ticket sale data, TV viewership data, and in-game statistics
- · Utilized Python's scipy, pandas, numpy, and matplotlib libraries for data manipulation, data visualization, and model training

Shodor Education Foundation

Durham, NC

Oct. 2013 - Aug. 2017

INTERN

· Developed curricula and taught programming concepts, web design, forensics, and modeling workshops

- · Used PHP, MySQL, and Google Calendar API to make updates and fix bugs on the HPCU website
- Created online JavaScript tutorial for use by educators and students in apprenticeship program

Duke University Durham, NC

RESEARCH INTERN

Jun. 2016 - Sep. 2016

- · Conducted computational environmental engineering research to address energy inefficiencies with battery-storage technology
- Developed a cost optimization model for large scale energy storage devices using R and the Shiny package
- Conducted analysis using Mathematica to determine financial viability of battery-storage technology
- Submitted research paper to Siemens and Regeneron research competitions

Skills

- Proficient in Java, Python, HTML/CSS, R, JavaScript, PHP, OCaml, and Mathematica
- · Skilled at modeling and simulation programs such as Vensim, AgentSheets, NetLogo, and Excel