Saniyah Shaikh

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OBJECTIVE

To gain challenging opportunities related to Computer Science, Robotics, and Connected Vehicles.

EDUCATION

Sophomore, University of Pennsylvania   Exp. Grad: May 2020
BSE, Computer Science   GPA: 3.54
> Coursework:
>> Completed: CIS 120, 160, 121, 262, 240, 320, 552
>> Current: CIS 350 (Software Design & Engineering), NETS 150 (Market & Social Systems on the Internet)

Rochester Adams High School   Grad: June 2016
                                                               GPA: 4.32

> Involved in FIRST robotics team (marketing captain in 2016, programmer, web designer), Business Professionals of America (2015-16 Vice President), 2016 National Merit Scholar

WORK EXPERIENCE

Engineering Research Assistant   Oct. 2016 - present
Children's Hospital of Philadelphia - Center for Injury Research & Prevention
- Working on first year of a research study about kids using highly autonomous vehicles
- Working on the second year of research concerning safety during a transition from autonomous to manual control of vehicle
- Year 1: Programmed simulator in **JavaScript**, assisted with testing & trials, **author on academic paper** in publication process, data processing in **Python**
- Mar 2017 - Wrote 7 pages of literature review on self-driving for 75 page proposal
- Jan 2018 - Attended Transportation Research Board (**TRB) 97th Annual Meeting** in DC

CIS 120 Teaching Assistant   Fall & Spring 2017
University of Pennsylvania
- Course covers **Java, OCaml,** basic GUIs, data structures, code design & style
- Responsibilities include: co-teaching recitation section, grading homework, & answering student questions during office hours, review sessions, & online

Research Assistant   Summer 2016 & 2017
Wright Patterson Air Force Base / Automated Target Recognition Center
- Summer 2016: As a Wright Scholar, integrated 3D models from drone imaging into Google Earth & converted them to a military format
- Summer 2017: implemented the Monte Carlo Tree Search algorithm using **Python**, added heuristics, and created simulation of drone swarming using the algorithm

PROJECTS
- CIS 552 - created Sudoku game in Haskell with a partner: graphics using **gloss** and game generation using AC-3, inference, and backtracking
- Hacked at PennApps XV & FemmeHacks 2017 - worked on personal website in **HTML** and **CSS**
- Hacked at PennApps XVI - in team of three, created *sentimentex*, a webapp for analyzing text into 7 emotion categories using **Google Cloud ML** and **Natural Language Processing APIs**, and Python **Sci-Kit Learn.** Learned **web-scraping, feature extraction,** and front and back end integration with **Flask**

CLUBS
- Penn Women In Computer Science
  - Residential Program Board member 2016-17: Organized Girl Scout coding workshop
  - Mentorship Committee member 2017-18: organize mentorship program
- Ivy League Undergraduate Research Symposium (ILURS) - tech committee member
  - Work on website (ilurs.org), point woman for SEO

HOBBIES: traveling, swimming, baking, ballroom dance, volunteering for STEM activities

Programming Languages:
Java, Python, OCaml, Haskell, Visual Basic, HTML/CSS

Additional Skills:
Microsoft Office, web scaping, Solidworks, Search Engine Optimization (SEO), teamwork, leadership, Spanish

GitHub:
saniyah-shaikh

LinkedIn:
www.linkedin.com
/in/
saniyahshaikh/

Research Highlights:
http://
blog.research.cho
p.edu/ready-self
-driving-cars/