

## Resume of SANIYAH SHAIKH

2008 Fairfield Dr | Rochester Hills, MI 48306 | Phone: 248-732-9746 | Email: [saniyah@seas.upenn.edu](mailto:saniyah@seas.upenn.edu)

### OBJECTIVE

To gain challenging opportunities related to Computer Science and Robotics.

### EDUCATION

Freshman – University of Pennsylvania, Philadelphia, PA

Expected Graduation: May 2020

- Computer Science Major, School of Engineering and Applied Sciences
- Fall 2016 courses:
  - CIS 120: Programming Languages and Techniques I
  - CIS 160: Mathematical Foundations of Computer Science
  - ECON 001: Introduction to Microeconomics
  - LING 106: Introduction To Formal Linguistics
  - BEPP 201: Introduction To Business Economics
- Spring 2017 courses:
  - CIS 121: Programming Languages and Techniques II
  - CIS 262: Automata, Computability, and Complexity
  - MATH 240: Calculus III
  - WRIT 025: Writing Seminar
  - MEAM 101: Introduction to Mechanical Design

Rochester Adams High School, Rochester Hills, MI.

Graduated: June 2016

- **GPA: 4.321 (weighted)**
- Standardized Tests:
  - ACT March 2015 – Composite score of **35** out of 36.
  - SAT December 2014 – Composite score of 2280 out of 2400
  - PSAT October 2014 – Composite score of 222 out of 240
- Notable Courses:
  - AP Physics, AP Computer Science, AP Calculus, AP Microeconomics, AP Psychology, AP English Language & Composition, AP English Literature, AP US History, AP Spanish, Accounting, and International Business.
  - **Dual enrolled** at Oakland University for Multivariable Calculus in Fall 2015.

### COLLEGE EXTRA-CURRICULAR ACTIVITIES

#### Member of Penn Women In Computer Science

- Board member for WiCS residential program – helping organize monthly tech and social activities
- Volunteered to teach coding workshops for high school Girl Scouts
- Currently organizing workshop about Computer Science at Penn for accepted students

#### Other:

- Member of Advancing Women in Engineering at Penn and the Society of Women Engineers
- National Center for Women and Information Technology Aspirations in Computing member
- Participated in PennApps XV, a hackathon hosted by Penn Engineering
- Volunteered as a referee for Penn FLL Championships all day on Feb 4<sup>th</sup>, 2017
- Learning to ballroom dance through Penn Latin and Ballroom Dance Club

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### WORK EXPERIENCE

CIS 120 Teaching Assistant January 2017 - present  
University of Pennsylvania School of Engineering

- Teaching Assistant for CIS 120: Programming Languages and Techniques I at Penn Engineering.
- This course covers OCaml, Java, basic graphical user interfaces, data structures, and good code design and style
- I co-teach a recitation section, grade homework, and answer student questions during office hours, on Piazza, and as a part of the FAQs committee.

Engineering Research Assistant October 2016 - present  
Children's Hospital of Philadelphia – Center for Injury Research and Prevention

- I am programming a self-driving scenario into our self-driving car simulator using JavaScript, and assisting with testing and trials.
- I am working on a work-study research project with Dr. Helen Loeb about issues concerning safety during a transition from autonomous control of a vehicle to manual control.

Research Assistant June & July 2016  
Wright Patterson Air Force Base

- I was one of 35 students nationwide accepted into the prestigious Wright Scholar Research Assistant Program for the Air Force Research Laboratory in Dayton, OH.
- I worked on computer science research in the Automated Target Recognition Center with my mentor, Dr. Clark Taylor
- The details of my work have not yet been publicly released.

Summer Internship July & August 2015  
DELRAY Systems

- DELRAY Systems is a startup company hosted at Oakland University's business incubator that provides solutions in the areas of 3D printing, additive manufacturing, 3D scanning, and 3D modeling.
- My role included website design, search engine optimization (so our website showed up on the first page on Google searches), social media and email campaigns, and business analytics.
- **I was awarded an "Inventors Package"**, which included a 3D printer and 3D modeling software – which I now use to design and print 3D prototypes at home.

Assistant Coach (Volunteer) October 2013 to March 2016  
MathCounts Team – Van Hoosen Middle School

- Worked with the main coach to prepare team for MathCounts competition. Planned and taught competition math problems, created challenging problem sets, graded student papers, helped students understand problem solutions and how to solve them expeditiously.

### AWARDS AND HONORS

- 2016 National Merit Scholar and AP Scholar with Distinction awarded August 2015
- Rochester Community Schools Scholar of Highest Distinction
- Michigan Affiliate National Center of Women and Information Technology (NCWIT) Aspirations in Computing Awardee

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### HIGH SCHOOL EXTRA-CURRICULAR ACTIVITIES

#### Member of Business Professionals of America (BPA):

- **Vice President** of the Adams BPA Chapter (2015-2016)
  - Organized the 2016 Regional Leadership Conference at Baker College
  - Organized a coat drive to benefit One Warm Coat as part of the state service project
- Competed in the State Leadership Conference for four years (voting delegate at 2016 SLC)
- Competed in Visual Basic Programming for three years at the regional and state level. In 2015 and 2016, I placed 1st in Visual Basic Programming regionally. In 2015, I placed 6th at the state level, and in 2016, I placed 7<sup>th</sup> at the state level.
- Earned the **Ambassadors Torch Award** for community service in 2015

#### Member of the National Honor Society (NHS) and Spanish National Honors Society (Sociedad Honoraria Hispanica):

- Participated in service activities in the areas of leadership, community service, school service, and fundraising.
- Received silver medals for the National Spanish Exam in Level 3 (2014), and Level 4 (2015)

#### Member of the Adams High School Robotics Team (AdamBots FIRST Robotics):

- Attended the World Championship in St. Louis in April 2015 & 2016 to represent my school
- As **the Marketing, Outreach, and Partner Relations Subteam Captain for 2016 FIRST Season**, I led the organization and presentation of our third annual Meet the AdamBots and Cyber Cats Event, which gives sponsors, parents, and prospective members an opportunity to see the AdamBots building our robot and hear more about how our team works.
- Marketing sub-team – Newsletter Editor, sponsor contact, and presenter in the annual Meet the AdamBots event for sponsors and parents.
- Social Media – Web Design sub-team – create and update the AdamBots webpage, helped create submission for the annual Media and Technology Innovation Award
- Programming sub-team – worked on programming autonomous portion of robot motion

#### Competed in Science Olympiad:

- Created and modified a compound lever to compete in the Compound Machines event for two years.
- Competed in the Water Quality, Reach for the Stars, Rocks and Minerals, Technical Problem Solving, Experimental Design, and Write It/Do It events by learning a variety of material for a written test.
- Placed 8th in both Compound Machines and Experimental Design regionally in 2014, and 4th in Write It/Do It in 2015.

#### Others:

- I like traveling, and have visited many different places within the US, and have also traveled to 7 other countries on 3 different continents.
- I have a purple belt in Karate, and like reading, swimming, and biking in my spare time.