

Brenda Gonzalez

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Education

University of Houston

Honors College – Class of 2020

- Bachelor of Science (B.S.), Computer Science
- COSC 1306 – Computer Science and Programming

Furr High School

Class of 2016

- High School Diploma

Experience

Google Computer Science Summer Institute (CSSI)

2016 – Cambridge Massachusetts

- CSSI is a three-week introduction to computer science for graduating high school seniors in which I learned Python, JavaScript, CSS/HTML, and App Engine. In addition, I was awarded the highly selective Generation Google Scholarship.
- Through CSSI, my group and I created a sign in web application to be used by CSSIers in order to let our RA's and everyone else know of our whereabouts. My contributions in our app included Python, API, Data store/App Engine, and JavaScript.
- Here's a link to our app: <http://team-d-a-b-123.appspot.com/dab.html>

Rice University's Research Experience for High School Students (REHSS)

2015 – Houston, TX

- REHSS is a 6-week paid laboratory internship on Rice University's campus. I was 1 out of only 12 students selected to be part of this highly selective program in its inaugural year.
- Alongside Dr. Rafael Verduzco and the Verduzco laboratory at Rice University, I conducted research on Organic Photovoltaic Solar Cells (OPVs) for an NSF research program.
- From my research, I learned how important it is to be precise when creating OPVs and how the smallest scratch can affect its efficiency. Through the data I collected, the lab was able to confirm that silver was a better anode than aluminum and that 2 out of 4 polymers that I tested were consistent and efficient.
- Here's a link to my research paper:
https://drive.google.com/file/d/0B0g_GOYzVmd7d1JsZU5pTmpxemc/view?usp=sharing

Activities

National Honor Society

2014-2016 - President

- Volunteered in local events within the Houston Community (Ex: Houston Food Bank, St. Vincent de Paul Community Center, Toys for Tots, Korean and Japanese Festivals)
- Researched new volunteering opportunities for the chapter
- Led bi-weekly meetings regarding upcoming events

Varsity Soccer

2014-2016- Captain

- Led team practices in the absence of my coach
- Mentored team members in math during our lunch study hall
- Handled any problems that members had with one another
- Led my team to 2 HISD District Championships (2013-2014 and 2015-2016.)

Skills

- Python
- HTML/CSS

Awards

2016

- Furr HS Class of 2016 Valedictorian
- Google Generation Scholarship Recipient

2015

- 1st Team All District – HISD 4A Cross Country

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- Phi Beta Kappa Scholarship Recipient
 - TheDream.US National Scholarship Recipient
 - HISD Board of Education Awards Honorable Mention
- 2014**
- 1st Team All District– HISD 4A Cross Country
 - 1st Team All District– HISD 4A Soccer