nicolasfishman
data scientist

contact

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languages

bilingual
spanish/english

programming

C++, Java, Python
Bash
Matlab, Wolfram, R
Javascript, PHP
CSS3 & HTML5
MySQL, MongoDB

interests

I have spent my brief academic life immersed in mathematics and computer science, with a special interest in bioinformatics applications:

- Creation of database, interface and analysis tools for studying genetic structural variation for the Comparative Genomics Branch at NIH
- President of the National Honor Society, Woodrow Wilson High School
- Captain of Varsity Robotics team, Woodrow Wilson High School
- Experience in thirteen computer languages
- As a freshman took AP Computer Science
- As a sophomore took AP Calculus BC
- As a junior took proof-based multivariable calculus at Stanford University
- As a senior enrolled in advanced computer science and biology courses at George Washington University
- Practicing martial artist in two disciplines, Karate and Aikido

education

since 2017 **George Washington University, Washington, DC**
- Term-time classes: machine learning, bioinformatics, and cryptography

2015 - 2016 **Stanford University, Stanford, CA**
- Term-time classes (online): proof based multivariable calculus

since 2013 **Woodrow Wilson High School, Washington, DC**
- Graduation date: June 2017
- Weighted GPA: 4.5
- Unweighted GPA: 3.95

experience

National Human Genome Research Institute, NIH

since 2016 **Research Fellow**   R, Matlab, Python
- machine learning solutions (R, Matlab, Python)
- data analysis and visualization (Python, Matlab)

2016 **IRTA Intern**   Python, MySQL
- database admin (MySQL)
- web development (Python and Flask)

FIRST Robotics, Wilson High School

since 2015	**Team Captain**	
	• managing budget • writing grants, managing sponsor relationships	
since 2013	**Programmer**	Java, HTML, CSS, PHP
	• programming the robot (Java) • designing and maintaining the team's website (HTML, CSS, PHP)	
since 2013	**Electrical Engineer**	
	• wiring the robot according to the mechanical and prorgammatical need	

Tutoring

since 2015	**George Washington University**	C++, Python, Bash
	• computer science, bioinformatics tutoring	
2015 - 2016	**Georgetown University**	C++
	• computer science tutoring	

OpenMRS

2014 - 2015	**Localization Developer**	Java
	• facilitating ease of translation across a large codebase	

Wilson Beacon, Wilson High School

since 2014	**Web Developer**	PHP, CSS, HTML
	• Website redesign and performance improvements • WordPress support	

ser**vice**

since 2015	**Tutor**	National Honor Society
	• Mathematics, history, English, computer science and physics tutoring	
since 2014	**Self Defense Instructor**	Aikido Shobukan Dojo
	• Weekly instruction of younger students in self-defense	
since 2013	**Invasive Species Management**	Rock Creek Conservancy
	• Certified volunteer leader for the Rock Creek Conservancy and National Park Service	
2013	**IT Instructor**	Dominican Republic

	• teaching course in Spanish in the Dominican Republic
	• designing a cirriculum focussed on foundational IT skills, how to:
	  – interact with a computer
	  – setup, write and check email
	  – use Microsoft Word and Powerpoint
	  – use Google for communications and research	

March, 2017