Jake Nieto

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Education

Brown University
Concentrating in Computer Science & Economics   Expected May 2022
GPA: 4.0

Skills and Coursework

Programming Languages/Technologies: Java, Python, JavaFx, Microsoft Excel, Word, PowerPoint
Coursework: Intro to Computer Science, Analytical Mechanics, Honors Multivariable Calculus, Advanced Spanish I

Research Experience/Projects

CS0150 Intro to Object Oriented Programing under Andries van Dam   September - December 2018
• Implement various mobile and classical games such as Pacman, Doodle Jump,
  Tetris and Fruit Ninja from scratch using the JavaFx library
• Developed an AI to play the classic game Pacman

Weismann Institute: International Summer Science Institute., Under Noam Morali and Aviram Steinbok   July 2018
"Reducing vibrations in quantum electronic ultra-low temperature measurements"
  o Research in developing a double gimbal system to reduce mechanical vibrations that interfere with scanning
    tunneling microscopy. Collaborators: Dominic Agius, Georgina Menasche-Standen, & Minjae Yu

Stony Brook University: Simons Program., Under Dr. Steven Glynn Current   June - August 2017
"A Computational Analysis of medicinal Cannabinoids and other Ligands that Bind to Liver Fatty Acid Binding Protein"
  o Research in developing pain therapies through use of the endocannabinoid system and fatty acid binding protein
    inhibition

Angion Biomedica Corp., Under Dr. Prakash Narayan   June – August 2016
"Renal Parenchymal Area and Kidney Collagen Content in a Murine Model of Chronic Kidney Disease"
  o Research in CKD and mathematical modeling. Correlated kidney collagen content with renal area. **Peer reviewed and
    published in: PLOS One & arXiv**

"An Empirical Biomarker-based Calculator for Cystic Index in a Model of Autosomal Recessive Polycystic Kidney Disease – The Nieto-Narayan Formula"
  o Research in ARPKD and mathematical modeling. Used preexisting data and quantified the relationship between
    ARPKD and urine/serum biomarkers. **Peer reviewed and published in: PLOS One, arXiv & bioRxiv**

MediAlarm **Mobile App**   2016
• Collaborated on a team of 3 to develop an app to aid those with memory degenerative disorders and cognitive
  impairment with taking prescription medication on time

Job Experience

Brown University Work Study: Special Collections-Reader Services at John Hay Library   2018
• Informing patrons of rules and regulations of the library
• Paging rare books and manuscripts from closed stacks and assisting patrons with JOSIAH and the card catalog
• Typing, copying, filing, answering phones, etc.
• Assisting with book shelving and reserves, and searching for missing books

Leadership Experience and Awards

• President of High School Science Honor Society   2018
• President of High School Spanish Honor Society   2018
• Board of Directors for the town of Commack's Interact (rotary) club   2018
• Rensselaer Polytechnic School Medalist - $100,000 Scholarship for achievement in science and math   2017