

Jake Andrew Nieto

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Education

Brown University

Bachelor of Science Candidate in Computer Science

Expected 2021-2022

GPA: 4.0

Milton Fisher Scholarship Recipient - \$20,000 for creativity in a community-based project

Skills and Coursework

Languages: C, Java, Python, x86

Coursework: Object Oriented Programming and Computer Science, Algorithms and Data Structures, Discrete Structures and Probability, Computer Systems, Multivariable Calculus, Professional Translation and Interpretation in Spanish

Project and Research Experience

Software Development Projects

Current

- Implement various mobile and classical games such as Pacman, Doodle Jump, Tetris and Fruit Ninja using the JavaFx library. Developed an artificial intelligence algorithm to play the classic game Pacman.
- Implemented Seam Carve algorithm, ID3 algorithm, and Google's Page Rank algorithm in java.

Weismann Institute: International Summer Science Institute., Under Noam Morali and Aviram Steinbok

2018

- "*Reducing vibrations in quantum electronic ultra-low temperature measurements*"
- Research in developing a double gimbal system to reduce mechanical vibrations that interfere with scanning tunneling microscopy.

Angion Biomedica Corp., Under Dr. Prakash Narayan

2016-18

- Research in CKD and mathematical modeling. Correlated kidney collagen content with renal area.
- 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.**

Stony Brook University: Simons Program., Under Dr. Steven Glynn

2017

- "*A Computational Analysis of medicinal Cannabinoids and Ligands that Bind to Liver Fatty Acid Binding Protein*"
- Research in developing pain therapies through use of the endocannabinoid system and fatty acid binding protein inhibition

MediAlarm

2017

- 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.

Work Experience

Undergraduate Teaching Assistant CSCI 0150 – Intro Object Oriented Programming and CompSci

Current

- Lead weekly lab meetings of ~10 students each, hold weekly TA hours.
- Work on google sheet scripts designed to organize student information.
- Design and grade course assignments, assist with lecture preparation for class meetings

Brown University Work Study: Special Collections-Reader Services at John Hay Library

Current

- Page rare books and manuscripts from closed stacks and assist patrons with JOSIAH (catalog) and the card catalog. Type, copy, file answer phones, etc.
 - Searching for missing books and other assigned duties.
 - Inform patrons of rules and regulations of the library.
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