

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, x86, Java, Python, JavaScript, HTML, CSS, ReactJS, SQL

Tools: GDB, IntelliJ, Eclipse, Alloy, Git, Maven, Tensorflow, GCP

Coursework: Object Oriented Programming and Computer Science, Algorithms and Data Structures, Discrete Structures and Probability, Computer Systems, Computer Vision, Software Engineering, Logic for Computer Systems

Projects

CovCal 2020

-Web app with a dynamic calendar used to keep track of shift coverages for an organization.

Backend written in Java and frontend written using ReactJS.

Modeling traffic jams 2020

-Used light weight object modeling tool to model traffic jam systems and solve for optimal solutions.

CNN image classification 2020

-Designed and trained a CNN to classify images of rooms with 15 different classifications using tensorflow in python3.

Maps 2020

-Java application that reads in a SQLite database containing road info from Open Street Maps and determines nearest traversable ways, paths between locations, and nearest neighbors given a location.

Research

Weismann Institute: International Summer Science Institute. 2018

-*"Reducing vibrations in quantum electronic ultra-low temperature measurements"*

-Research in reducing 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**

Work Experience

Undergraduate Teaching Assistant CSCI 0150 – Intro Object Oriented Programming and CompSci 2019

-Lead weekly lab meetings of ~10 students each, hold weekly debugging and conceptual TA hours.

-Work on google sheet scripts designed to organize student information.

-Design and grade course assignments, assist with lecture preparation for class meetings

Hack@Brown – Experience Team 2020

-Member of the Hack@Brown team which organizes a hackathon for over 500 students

-Collaboratively work with a team of ~30 students.

-Worked on the experience team responsible for the hackathon logistics

Brown University Work Study: Special Collections at John Hay Library 2020

-Page rare books and manuscripts from closed stacks and assist patrons with the card catalog.

Type, copy, file answer phones, etc.

Center for Justice Community Law Firm – Spanish Interpreter and Translator 2019

-Translate legal documents from English into Spanish

-Interpret for clients both in person and over the phone
