

Andrew J. Cervantes

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Tufts University
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Education

Tufts University School of Engineering

Bachelor of Science in Computer Science

GPA (as of September 2019): 3.56

Medford, Massachusetts

anticipated May 2021

Projects

- Deduplication: Software written in C and then transferred and tweaked in R for the New Jersey Department of Health, used to identify duplicate people in the health database CDRSS, as well as find disease specific cases that need to be merged. Outputted Patient ID numbers and a percent value that correlated to a specific merge scenario and represented the percent chance that the two people were the same.
- AboutMe webpage: Software written in html/CSS and used to give a look at me on the Internet, as well as provide a go to point for my projects and information.

School Projects

- GERP: Creating a program that performs the grep function, searching for the location of a word in directory
- Breadth First Search: Creating the search to find the closest connection between two vertices in a graph
- GitHub link: <https://github.com/AJCervantes?tab=repositories>

Skills

- Programming Languages: C, C++, html, R, VHDL, MATLAB, Visual Basic, Mathematica
 - Experience with Data Structures, Machine Learning, and Assembly Language
 - Currently getting or will soon have experience in: Python, JavaScript, Latex, C#
- Have some experience with the Unity Game Engine
- Proficient in Microsoft Office (Word, PowerPoint, Excel)
- Worked on many team projects, including Space Invaders with an FPGA and a silent vibrating alarm clock
- Training in light and heavy machinery including laser cutting, Drill Press, and 3D printing.

Employment History

HEALTH DATA SCIENCE INTERN | MAY 2019 – AUGUST 2019, NEW JERSEY DEPARTMENT OF HEALTH IZDP DEPARTMENT, TRENTON NJ

- Created a deduplication program to identify duplicates and increase the accuracy of the data
- Learned the design process of both a program and an algorithm, involving many tweaks and debugs in order to create the optimal product, and then presented the algorithm to non-computer scientists with a protocol for them to use in order to be able to utilize my code after I finished
- Merged approximately 7000 people across 3 chronic diseases (Hepatitis C, Hepatitis B, and Lyme)

- Worked in the highly hierarchal structure of the Government and gained experience in presentations to higher management.
- Program is currently in use and the algorithm will be used as a template for a state wide system.

FRONT DESK ASSOCIATE | 2018 – PRESENT, TUFTS UNIVERSITY, MEDFORD, MASSACHUSSETS

- Maintain front desk area, providing information to students and parents about financial aid and class enrollment.
- Respond to telephone and in-person information requests.
- Handle private information including SSNs, bank information, and academic standing.

LIFEGUARD/SWIM INSTRUCTOR & CAMP COUNSELOR | SUMMER, AUGUST 2015 – AUGUST 2018 EXCEL LEARNING CENTER, MT. LAUREL, NEW JERSEY

- Summer 2017 – Summer 2018: Head lifeguard/morning and evening shift counselor
 - Help to keep the kids active and engaged at camp
- Summer 2015 – Summer 2016: Co-lifeguard and part-time counselor
 - CPR and First Aid certified

Clubs & Activities:

Electric Racing Club: Worked on the cooling system and electrical protection equipment; attended the Formula Hybrid Competition in New Hampshire

Team Captain: Captained the high school tennis and soccer teams

Other Activities/Hobbies: Hiking, travelling, basketball, tennis, wake surfing, intramural sports, History