**Andrew J. Cervantes**

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Tufts University Permanent Residence

24 Burget Avenue 20 Eddlewood Place

Medford MA, 02155 Mount Laurel, NJ, 08054

**Education**

**Tufts University School of Engineering** Medford, Massachusetts

*Bachelor of Science in Computer Science, anticipated May 2021* GPA (as of September 2019): 3.56

**Experience**

**NEW JERSEY DEPARTMENT OF HEALTH INFECTIOUS & ZOONOTIC DISEASE PROGRAM, TRENTON, NEW JERSEY** *(hired through contract with 22nd Century Staffing Techologies)*

**HEALTH DATA SPECIALIST| MAY – AUGUST 2019**

* Created a database de-duplication program to identify duplicate records, perform merges, and improve data quality and database efficiency using an algorithm I designed.
* Developed an easy-to-understand, step-by-step user protocol/training guide for non-computer scientists to use the program as part of an ongoing data improvement initiative.
* Gave a presentation on the program/algorithm to senior program staff and shared ideas with information technology programmers for how the algorithm could be incorporated as a template into the state’s notifiable disease database.
* Merged approximately 7,000 duplicate person records across 3 communicable diseases (Hepatitis C, Hepatitis B, and Lyme).

**TUFTS UNIVERSITY, MEDFORD, MASSACHUSSETS**

**FRONT DESK ASSOCIATE | 2018 – PRESENT**

* 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.
* Summer 2017 – Summer 2018: Head lifeguard/morning and evening shift counselor
  + CPR and First Aid certified

**Projects**

* Database de-duplication(R): Finds duplicate patients given a database of case IDs and returns the percent chance that two given people are the same.
* AboutMe webpage (html/CSS): Website used as a platform to share some information about myself and some fun projects I’ve done. Link: <https://ajcervantes.github.io/AboutMe>
* Perry’s Washing: Fake company website for a car wash company owned by Perry.

Link: <https://ajcervantes.github.io/perrywashes/index.html>

* Space Invaders (VHDL): Runs one level of space invaders on an FPGA.
* GitHub link: <https://github.com/AJCervantes?tab=repositories>

**Skills**

* Programming languages: C, C++, html, R, VHDL, MATLAB, Visual Basic, Mathematica
  + Currently learning: Python, JavaScript, Latex, C#
* Software: Unity Game Engine, Microsoft Office
* Machinery: laser cutting, drill press, and 3D printing