Andrew J. Cervantes

609-675-3825
Andrew.Cervantes@tufts.edu

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
  o 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
  o Currently learning: Python, JavaScript, Latex, C#
➢ Software: Unity Game Engine, Microsoft Office
➢ Machinery: laser cutting, drill press, and 3D printing