Derek T. Dattero

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EDUCATION:

SUNY Binghamton, Binghamton, NY   May 2020
Bachelor of Arts in Psychology   GPA: 3.455

NYU Tandon, Brooklyn, NY   December 2020 Exp.
Bridge to Computer Science Masters   Current GPA: 4.0

COURSEWORK:

Calculus III, Differential Equations, AP Statistics, Physics II, AP Chemistry, Intro to Engineering, CS Fundamentals II, Discrete Structures, Logic and Computation, Object Oriented Programming, Statistical Analysis and Design, Research Methods, Experimental Psychology: Psychotherapy, Experimental Psychology: Perception, Experimental Psychology: Learning, Learning Lab, Psychology of Gender and Sexuality, Cognitive Development

SKILLS:

<u>Software:</u> Word, Excel, PowerPoint, SPSS, SAS, R, AutoCAD, SolidWorks, Xcode, Eclipse, Visual Studio Code, Fusion 360, IntelliJ IDEA, PyCharm, CLion
<u>Operating Systems:</u> Windows XP through Windows 10, OS X Snow Leopard through macOS Sierra, Ubuntu, Raspbian
<u>Programming Languages:</u> Java, C++, C#, Racket, Swift, Python, ACL2s, HTML, CSS
<u>Technical Skills:</u> Arduino, Raspberry Pi, 3D Printing, Computer Building, Wood Working

INTERNSHIP EXPERIENCE:

Montefiore PRAGMATIC and EM-ASTHMA Studies – Research Assistant   **May 2017 – August 2017**
- Screened for eligible patients by looking through medical charts and assessing medical condition, visit history, and current medications for both studies
- Contacted eligible patients by phone to remind them of their next appointment and to inform them about the study they are eligible for

Montefiore Hospital Rett Clinic – Research Assistant   **September 2012 – September 2015**
- Converted videos of participants with Rett Syndrome using a Tobii Eye Gaze into quantifiable data
- Analyzed data to see if participants with Rett Syndrome were inherently able to communicate using this device

Simons Summer Research at Stony Brook University   **June 2014 – September 2014**
- Awarded a paid 8-week research internship in the area of Applied Mathematics and Statistics
- One of 28 students chosen nationally
- Analyzed youth sports based on injury and calorie burn rate, working with undergraduate and graduate students
- Examined data and produced reports by using SPSS and SAS

PROJECT EXPERIENCE:

Various Raspberry Pi Projects   **December 2015 – Current**
- Used a Raspberry Pi for projects such as a VPN with ad-blocking, Minecraft servers, 3D printer controllers, and network attached storage
- All projects done using Linux terminal
- Most projects required specialized network set up, such as static IP addresses and port forwarding

Custom Built Computers   **October 2012 – Current**
- Built a computer using predetermined kit, adding extra components later
- Designed and built a second computer, chose parts based on compatibility, performance and aesthetics
- Parts installed include motherboard, CPU, liquid cooling, RAM, solid state drive, hard disk drive, graphics card, and power supply

3D Printing Face Shields for Stony Brook Hospital   **May 2020 – June 2020**
- 3D printed face shield headbands for use at Stony Brook Hospital during COVID-19 pandemic
- Created a script for the print head to knock the print off the bed and immediately start a new one in order to make headbands 24/7