Marshall Wilson

Email: w.marshall.wilson@gmail.com | **Cell:** 512-992-9855 | **City:** Somerville, MA
GitHub: https://github.com/Marshall-Wilson | **LinkedIn:** www.linkedin.com/in/w-marshall-wilson

STATEMENT

Software engineer and former research coordinator and science educator. Seeking to bring a strong fundamental knowledge of software design, a talent for teamwork and communication, and a passion for data science and problem solving to your team.

SKILLS

- Proficient in Python, C/C++, JavaScript, and VBA
- Web development using JavaScript (React), HTML, and CSS
- Machine Learning and Optimization using Google OR-Tools, Numpy, Pandas, and Scikit-learn
- Data Analysis and visualization using Python, R (ggplot2) and MATLAB
- Git, Visual Studio, Unix Terminal, Bash scripting, and LaTeX
- Object Oriented Design, Algorithms, Data Structures, Programming Languages, and Software Testing

EDUCATION

Tufts University | Post-Bacc in Computer Science | GPA: 4.0 | Sept 2020 – Aug 2021

Dartmouth College | B.A.: Major in Biology | GPA: 3.51 | 2013 – 2017

COURSEWORK

Algorithms, Data Structures, Advanced Algorithms, Machine Structure & Assembly-Language Programming, Discrete Mathematics, Programming and Computation, Statistics and Experimental Design, Biostatistics, Full-Stack Engineering (on Codecademy), Machine Learning with Python (on EdX)

PROJECTS

Universal Machine Emulator (C) - https://github.com/Marshall-Wilson/UM-Emulator
- Emulates a custom, Turing-complete machine with segmented memory

MOS Overnight Employee Scheduler (Python) - https://github.com/Marshall-Wilson/employee_scheduler
- Automatically generates part-time employee schedules according to availability using OR-Tools

Music Collaboration Explorer (C++) - https://github.com/Marshall-Wilson/collaboration-explorer
- Finds paths between artists through their collaborations using DFS and BFS methods

WORK EXPERIENCE

Research Assistant, Dogar Lab, Tufts University   Nov. 2020 – Present
- Assist in feature planning and grant writing for a new hybrid civic meeting technology

Logistics Coordinator, Museum of Science Overnight Programs   Oct. 2019 – Apr. 2020
- Managed billing, accommodations, and scheduling for multiple ~500 person events per week
- Developed a Python program for automatically generating employee schedules

Program Assistant, Massachusetts Institute of Technology   Sept. 2018 – Oct. 2019
- Coordinated events, budgets, and grant proposals for 25 labs across 11 universities
- Managed data collection and analysis for yearly NSF reporting

Forum Fellow, Museum of Science Forums Department   Aug. 2017 – Sept. 2018
- Created public engagement programs around the intersections of science, policy, and ethics

Farm Intern, Dartmouth Organic Farm   Mar. 2016 – Jun. 2017
- Handled crop production from seed to buyer at a small teaching farm