Michael D'Arcy

267-614-7869 | Address available upon request
michaeljdarcy1337@gmail.com | github.com/mjd-programming

WORK EXPERIENCE

Research Analyst   April 2022 – Current
Independence Blue Cross; Philadelphia, PA
- Developed and maintained 6 Tableau dashboards used by the marketing, products, and sales departments
- Created and distributed R scripts to aid team in batch data ingestion by streamlining the process and bypassing externally placed size constraints
- Integrated R's Geolocation capabilities in previously developed SQL queries to allow for more advanced reporting
- Migrated roughly 55 SQL queries from Teradata to GCP (Google Cloud Platform) database systems
- Migrated an additional 65 SQL queries from Highmark to NextGen EHR software
- Completed over 380 ad hoc reporting requests

Software Engineer   May 2020 – September 2020
Biology Research Lab; Temple University; Philadelphia, PA
- Developed web application to convert Unicode data into digitized DNA
- Collaborated with Biology and Chinese Literature doctors
- Gave weekly development progress reports to partners in the research lab

Data Analyst   March 2017 – July 2018
Office of Admissions; Bucks County Community College, Newtown, PA
- Created Python software to analyze potential factors that lead to student retention
- Implemented IBM Watson Analytics API to enhance power of software

NOTABLE PROJECTS

Solo Developer   Summer 2021
Tetris AI
- Taught software to play Tetris using genetic algorithm
- Created Tetris game using Python's PyGame library
- Algorithm ends up clearing 100-200 lines before losing

Seminar Leader; STARS; Temple University; Philadelphia, PA   February 2019 – May 2019
- Lead web development seminars aimed to teach grade school students about programming
- Participants ranged from 4th to 8th grade; group sized around 15 people

EDUCATION

Bachelor of Science, Computer Science   January 2019 – December 2021
Temple University; Philadelphia, PA
- Completed courses in both Computer Science and Information Science field
- Focused on taking courses pertaining to Data Science and mathematics

Associate of Science, Computer Science   January 2017 – July 2018
Bucks County Community College; Newtown, PA
- Partook in local extracurricular activities including business club and fundraising events
- Focused on taking courses revolving around databases, data structures, and algorithms