Michael Gonzalez

12 Chadd Rd, Newark, DE | (302) 357-1683

mpgonz@gmail.com | github.com/mikegonz

EDUCATION

University of Delaware

Honors Bachelor of Science in Computer Science, GPA 3.48, ***May 2019***

EMPLOYMENT

Java Developer - *TEKsystems @ Independence Blue Cross* *Feb 2020 – Oct 2020*

Implemented backend features for member portals. Developed features for an insurance package assignment tool, using **Java with Spring Data JPA.**

Software Engineering Intern - *SevOne, Inc.* *Jun 2019 - Aug 2019*

Automated the creation of network metric collectors and the generation of JSON files in **Go.** Implemented switchable color schemes and other features for Google Cloud Platform site using **React and Node,** as part of an **Agile** team.

Teaching Assistant - *University of Delaware CIS Department* *2016-2017, 2018-2019*

Held office hours, graded labs, and guided lab sessions for *Intro to Computer Science* using **Python & Racket** languages.

Research Assistant - *University of Delaware* *Jun 2017 - Aug 2017*

Developed a model of cell proliferation in colons using Netlogo, an agent-based modeling platform.

PROJECTS

- **AlbumVis** (*Python, Django*) - Dynamic album art visualizer web app using Spotify API.
- **ARM Runner** (*Java*) - Teaching tool to step through and simulate execution of AArch64 RISC instructions and provide visual representations of registers and stack memory (team).
- **PRNG Analysis** (*C, CUDA, OpenMP, MPI*) - Comparison of different parallel implementations of a pseudorandom number generator algorithm.
- **DIVER** (*Unity3D, C#*) - 3D atmospheric exploration game using the Unity game engine, with features like dynamic landscape and mutating visual effects (team).
- **Band Name Generator** (*Python*) - Using recurrent neural networks and Markov chains, generates band names and semi-intelligible lyrics.

SKILLS

Proficient: Python, C, C++, Java, JavaScript, Go, Django, React, Node, HTML, CSS, SQL Bash, Linux, Android, Git, CUDA, Racket (Scheme), pthreads

HONORS & AWARDS

2017: General Honors Award
2017: DIS/Peter Rees Scholarship
2015-2018: UD 1743 Distinguished Scholar
2015-2018: Diamond State Scholarship

Coursework: Data Structures, Parallel Programming, Computer Architecture, Logic & Programming, Automata Theory, Algorithms, Assembly Language, Advanced Software Engineering, Operating Systems, Machine Learning, Compiler Construction, Artificial Intelligence, Computational Analysis of Big Data, Game Development