**Kenneth Diogo**

91 Wick Oval • Youngstown, OH, 44502 • (757) 817 – 7424 • kenneth.diogo@gmail.com

**EDUCATION**

**Youngstown State University** (YSU)

* Bachelor of Science, Computer Science, Anticipated May 2020
* **Honors/Scholarships:** YSU President’s Scholarship, Honors Program Scholarship, Trailblazer Scholarship
* **Overall GPA:** 3.64

**PROJECTS/RESEARCH**

***Tutor Assistance Center (TAC)*** (Independent Work in Progress)

* Developing a Tutor Assistance SPA Web Service with Django and Vue.js to meet the Administrative needs of Youngstown State University's Math Assistance Center (MAC)

***SynOptic Image Audioization*** (Spring 2018)

* Collaborating with a Music Production and Computer Science student to develop a web service built in Django that converts an image into a song mapped to a musical scale using a unique algorithm.

***Deep Learning Research*** (Fall 2018 – Spring 2018)

* Collaborating with a YSU Professor to ultimately develop a DNN/CNN classifier that can recognize the artistic styles of given images

***Machine Learning and Genetic Algorithms with Flappy Bird,*** AI in Game Design (Spring 2018)

* Trained a three-layer feed-forward neural network using genetic algorithms to play Flappy Bird.

***Consortium for Mathematics and Its Applications Contest 2018*** (Spring 2018)

* Collaborated with a group of three students to develop a mathematical model and simulation of flow of languages across the globe. Simulation was implemented with Python and modelled as a graph

***Duck Dodgers vs. Marvin the Martian,*** Data Structures(Fall 2017)

* Implemented breadth first search algorithm on a 2d hex map to demonstrate path finding in AI.

***Consortium for Mathematics and Its Applications Contest 2017*** (Spring 2017)

* Collaborated with a group of three students to develop a mathematical model and simulation of toll booth throughput efficiency. Simulation was implemented in Python and modelled as a series of queues to demonstrate the effects of changing a variety of variables. Was awarded top 50% of 5000 international teams.

**LEADERSHIP/INVOLVEMENT**

**YSU Honors College**

* Rigorous coursework and community service.

**Oak Hill Collaborative**

* Raspberry Pi Program (see **Teacher** under Work Experience).

**YSU Penguin Hackers** (Fall 2016 – present)

**YSU Men’s Volleyball Club – Officer** (Fall 2017 – present)

**TECHNICAL SKILLS**

**Programming Languages/Skills**

* Advanced knowledge: Python, .NET, C#, SQL, VB, Javascript, JQuery, HTML/CSS, ASP.NET MVC, Django, Vue.js, Full-Stack Web Development
* Intermediate knowledge: Java, Flask, C++, Unity

**WORK EXPERIENCE**

**Software Developer,** Intellitech Corporation Spring 2018 – Present

* Develop/maintain current and legacy public safety software built in VB6, C#.NET, VB.Net, and ASP.Net
* Full-Stack Web Development for a new, web-based JMS (Jail Management System) built with ASP.NET MVC and Vue.js
* Assist with SQL database administration in live and test environments.
* Created a graphical interface for managing user group permissions in legacy VBA application
* Designed and developed a C#.NET Windows Presentation Foundation application that allow a user to easily format and create data interfaces/exports to satisfy the needs of several counties across the U.S.A
* Designed and developed an upgraded version of the company’s website

**Teacher,** Success After 6 Youngstown Schools, Youngstown, OH Spring 2017 - Present

* Teach the fundamentals of computer hardware/software to 4th – 5th grade students
* Facilitate and distribute Raspberry Pi systems for each child.

**Computer Science Tutor,** YSU Center for Student Progress, Youngstown, OH Spring 2017 - Present

* Teach Programming, Data Structures, and Object-Oriented Programming in C++,Java, and Python.
* Maintain weekly progress reports/documentation for each tutee