

Kenneth Diogo

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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