

# 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:** 3.65

## PROJECTS/RESEARCH

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

- Developing a SPA Web Service using Node.js, TypeScript, Type ORM, Socket.io, and Vue.js to meet the Administrative and real-time needs of Youngstown State University's Math Assistance Center (MAC)

### *Lexical Analyzer Generator, Compiler Design* (Spring 2019)

- Wrote a Lexical Analyzer Generator in C++ that generated DFAs from regex definitions using Thompson's Construction algorithm and subset construction.

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

- Collaborated 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.

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

- Trained a three-layer dense 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 directed graph

### *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 – President (Fall 2017 – present)

## TECHNICAL SKILLS

### Programming Languages/Skills

- Python, C#, VB, Java, JavaScript/TypeScript, SQL, GraphQL, C/C++, JQuery, HTML/CSS, ASP.NET, Django, Vue.js, React.js, Node.js, RESTful Services, Spring Framework, Agile, Android

## WORK EXPERIENCE

### Research Assistant, Youngstown State University

September 2019 – Present

- Collaborating with Electrical Engineering department to develop to an Android, IOS, and web application to interface with a Bluetooth Low Energy device to collect pressure sensor readings.
- Front-end work with Vue.js. RESTful API development with Django.

### Software Engineer Intern, J.P. Morgan Chase & Co.

June 2019 – August 2019

- Full-Stack development with agile methodology creating a web application to help accountants assess foreign exchange risk
- RESTful microservices w/ Spring Framework. Front-end work w/ React.js and Bootstrap 4

### Software Developer, Intellitech Corporation

March 2018 – April 2019

- 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
- 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 clients across the U.S.A

### Teacher, Success After 6 Youngstown Schools, Youngstown, OH

January 2017 - Present

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

### Computer Science Tutor, YSU Center for Student Progress, Youngstown, OH

January 2017 - Present

- Teach Programming, Data Structures, and Object-Oriented Programming in C++, Java, and Python.