

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:** 3.7

PROJECTS/RESEARCH

Waru, Game Programming (Fall 2019)

- Developed a 2D parkour-based side-scroller in Unity. Involved the implementation of UI elements, patrol-based AI, animations, level design, and combat system.

Tutor Assistance Center (TAC) (Spring 2019)

- Developing a SPA Web Service using Node.js, TypeScript, Type ORM, 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.

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 2017 - 2018

- Collaborated with a group of three students to develop mathematical models and simulations of toll booth throughput efficiency (2017) and the spread of languages (2018). Simulations were implemented in Python. Was awarded top 50% of 5000 international teams in 2017

LEADERSHIP/INVOLVEMENT

YSU Honors College

- Rigorous coursework and community service.

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 APIs, Spring Framework, Agile, Android, Electron, WPF

WORK EXPERIENCE

Research Assistant, Youngstown State University

September 2019 – Present

- Collaborating with Electrical Engineering department to develop 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 using Django and Node.js.
- Desktop application development using Electron and Vue.js

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

June 2019 – August 2019

- Helped develop an accounting related web application from the ground-up as part of an initiative to upgrade an existing legacy application utilizing Java w/ Spring Framework, REST architecture, OracleDB, and React.js
- Collaborated with end-users to create custom and intuitive front-end experiences
- Led the development of a brand-new Chase career mobility website landing page
- Participated in the use of Agile methodologies

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 that cut down permission management times in half
- Developed a C#.NET WPF application that allowed 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 – May 2019

- Teach the fundamentals of computer hardware/software to 4th – 5th grade students

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

January 2017 - Present

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