

# **HALEY YERXA**

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## **EDUCATION AND TRAINING**

- Florida Gulf Coast University, Candidate for Bachelor of Science, Software Engineering with Mathematics minor, expected graduation May 2023
- Captain of Division 1 Women's Golf Team, Fort Myers, FL
- E.A.G.L.E Leadership Institute Graduate
- Member of FGCU Eagle's Council

## **SKILLS AND QUALITIES**

- Programming experience in .NET and .NET Core using C++, React JS & TSX, Python, Kotlin, C++, C#, Java, JavaScript, MATLAB, HTML/CSS, AWS, Elastic Stack, Shell Scripting, Docker
- Completed coursework includes Computer Organization and Assembly Language, Object-Oriented Programming, Software Security, and Data Structures and Algorithms
- Experience in project management tools such as Jira, Confluence, StarUML, Git/GitHub
- Excellent leadership skills developed from experience in leadership positions
- Experience with the command line and scripting in Linux, Windows, and MacOS
- Fluent in English and French

## **EXPERIENCE**

### **Machine Learning Research Student, FGCU Computational Perception Laboratory**

*August 2021 – Present*

- Working with Dr. Chris DiMattina from the FGCU Department of Psychology on an NIH R-15 grant from the National Eye Institute.
- Using Python TensorFlow and MATLAB to develop neural networks to model behavior of how humans perceive shadows and edges in images.

### **Junior Data Scientist, Helux Systems Inc.**

*May 2021 – Present*

- Member of an AGILE team working with Microsoft technologies as a Microsoft Gold Partner.
- Participating in Quality Assurance, which includes writing and running tests, reporting and passing bugs, and testing new features.
- Engaged in front-end development fixing bugs for the React TSX web application.
- Engaged in back-end development for the C# .Net project that supports the React application.
- Creating and implementing machine learning models using Microsoft Syntex.

### **College Academic Tutor, Florida Gulf Coast University**

*August 2019-Present*

- Tutoring student-athletes in a variety of subjects, including Calculus, Computer Science, Biology, and Physics.
- Coaching valuable academic skills such as time-management, effective study habits, and problem-solving.

### **Junior Software Developer, Bell Canada**

*May 2020 – August 2020*

- Member of an AGILE development team, gained experience working in sprints and accurately estimating the required time for various tasks.
- Developed web tool for displaying account details using a .NET core web API and React JS user interface, and deployed the tool using Docker.
- Primary developer on the project, responsible for both back-end and front-end development.
- Used test-driven development to modify existing APIs in .NET to add new endpoints required for the project.
- Implemented React-Redux to handle multiple API calls and error handling.
- Used Material UI components in React, as well as developing custom React Hooks and styles.

### **Software Development Student, Blackberry**

*May 2019 – August 2019*

- Created Machine Learning program attached to Django web service and AWS S3 buckets to process data and predict values.
- Maintained multiple servers to ensure proper communication of data being received from devices
- Developed valuable projects in Elastic Stack and Kibana to interpret and visualise data
- Worked with Spring MVC Web Service and created and modified Docker images and containers.
- Debugged and established new code in Python, Java, and Kotlin, on Ubuntu.

### **Hertz Hackathon**

*February 2019*

- Developed an iOS app for a kiosk to allow Hertz customers to customize their car rental experience.
- Used Visual Recognition software through AWS DeepLens technology and created lambda functions that accessed inputted S3 images and compared them to stored images to determine similarity (facial recognition using Rekognition).
- Presented prototype and answered questions regarding implementation.

### **Piano Teacher, Private Lessons**

*Sept 2017 – August 2018*

- Taught piano to beginner students and prepared students for recitals.

## **AWARDS AND ACHIEVEMENTS**

- WGC A All-American Scholar, 2020-2021
- ASUN Golf All-Academic Team, 2020-2021
- FGCU President's List (perfect 4.0 GPA), Fall 2018, 2019, 2020, Spring 2019, 2020, 2021
- Hertz Hackathon, 2<sup>nd</sup> place prize, February 2019
- Various graduation awards for achievement in STEM, June 2018
- Governor General's Academic Medal, June 2018
- High School Valedictorian, June 2018
- Taekwondo Black Belt, August 2012

## **INTERESTS AND ACTIVITIES**

- Avid golfer for several years, successfully competing in many competitions throughout Canada and USA, now a collegiate athlete.
- Interested in the applications of Machine learning and AI in the field of bioengineering.
- Active participant in high school band program for all years, playing various instruments (flute, piccolo, clarinet, oboe, tenor saxophone, piano, violin, various percussion instruments).