

Tyler O'Hare

tyleroharebusiness@gmail.com | [Portfolio](#) | [Github](#)

EDUCATION

Iowa State University

Graduated May 2022

Bachelor of Science in Cyber Security Engineering

GPA: 3.39

- **Dean's List:** Spring 2020, Spring 2021, Spring 2022

SKILLS

- **Front End:** Javascript, React, HTML5/CSS3, Figma, Photoshop
- **Back End:** Java, Python, Nodejs, C, SQL, MongoDB, Linux, Version Control
- **Security:** Nmap, Metasploit, Burp Suite, Wireshark, IDS, TCP/IP, Bluetooth, LTE, GSM, Cryptography, Penetration Testing

PROJECTS *(Please allow up to 30 seconds for demos to load)*

Finance Tracker

[Demo](#) | [Code](#)

- React web application that allows users to analyze their finances in an intuitive UI. This project was built using HTML, CSS and React.
- **RESULT:** Reduces time to analyze finances by over 30% when compared to a manual analysis.

Polar Insights - Currency Analysis Application

[Code](#)

- Jupyter Notebook application that analyzes foreign exchange currency crosses using Pandas, Numpy, and Python that computes and tracks a given currency's daily and weekly high and low statistics from time series CSV data.
- **RESULT:** Powerful notebook that generates years of currency data statistics in a matter of seconds.

Login API

[Code](#)

- Rest API code for login and register functionality for backend system for applications. Built using Nodejs and Express.
- **RESULT:** Modular and secure code component that reduces 4 hours of login system integration time.

Mobile Habit Tracking Application

[Code](#)

- A mobile Android application developed using Java, SQL, Git, and Spring Boot API using agile development methodology.
- **RESULT:** Mobile Android application that successfully tracks and manages users' habits on an external Linux server.

Instructional Dashboard for Learning Networks

[Demo](#) | [Code](#)

- Web dashboard that visualizes learning networks using R, Shiny, visNetwork, and SQL utilizing agile + waterfall hybrid methodology.
- **RESULT:** Received a funding grant for continued development at Iowa State University. Classroom deployment at Iowa State University starting Fall 2022.

Siren Expert Advisor

[Code](#)

- An expert advisor coded in MQL4 that safely and reliably executes trades live in the foreign exchange market. Identifies price patterns and utilizes professional risk management techniques.
- **RESULT:** .450% realized equity gain in the span of 5 year backtesting period.

PROFESSIONAL EXPERIENCE

Iowa State Academic Success Center

Iowa State University

Object Oriented Programming Tutor

January 2020 – May 2020

- Applied technical communication skills to effectively teach object-oriented programming in Java.
- Clarified and reviewed concepts related to OOP, sorting algorithms and data structures.
- Facilitated frequent meetings leading groups of 3 to 5 students.