

# Troy Fischer

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## EDUCATION

### UNIVERSITY OF FLORIDA

#### BS IN COMPUTER SCIENCE

Graduated May 2019 | Gainesville, FL

Major GPA: 3.73

Cum. GPA: 3.67

## CERTIFICATIONS

### AWS Certified Solutions Architect

## LINKS

Website: [troyfischer.net](http://troyfischer.net)

Github: [github.com/troyfischer](https://github.com/troyfischer)

## COURSEWORK

Artificial Intelligence

Database Systems

Data Structures and Algorithms

Linear Algebra

Numerical Analysis

Operating Systems

Software Engineering

## SKILLS

### PROGRAMMING

Over 5000 lines:

Python • Java

Over 1000 lines:

C++ • Javascript • Bash

Familiar with:

SQL • YAML

### TECHNOLOGIES

Amazon Web Services

Lambda • Step Functions • S3

Container Management

Kubernetes • Docker

### ENVIRONMENTS

Linux • MacOS

### TOOLS

Jira • Git • Confluence

Emacs • Vim • PyCharm

## ACHIEVEMENTS

Parsons Game Changer Award x 2

Florida Academic Scholars Award

Cum Laude Honors

Dean's List

## WORK EXPERIENCE

### CAPITAL ONE | SENIOR ASSOCIATE SOFTWARE ENGINEER

Feb 2022 - Present

- Working with the cookiecutter framework to enable business analysts to quickly generate code and make contributions to our platform.
- Using AWS Lambda functions to automate our metadata management processes.
- Practicing test driven development with pytest and behavioral testing with behave.
- Implementing AWS Step Functions to orchestrate interactions between multiple components necessary to provide the client results.

### L3HARRIS | SENIOR ASSOCIATE SOFTWARE ENGINEER

March 2021 - Feb 2022

- Maintained a PHP backend to process command and control requests from a browser based GUI.
- Gained experience using JQuery to provide real time content updates.
- Upgraded our MVC framework from Yii 1.1 to Yii 2.0.
- Developed automated test suites for SOAP web services using SoapUI.

### PARSONS | ASSOCIATE SOFTWARE ENGINEER

July 2019 - February 2021

- Used the Java Kafka API to allow communication between microservices in an event driven architecture.
- Maintained an automated test suite using Junit4 and led an initiative towards test driven development.
- Standardized API creation using the OpenAPI specification which increased adherence to an MVC architecture.
- Developed React components to interface with our API and provide dynamic data to the user.

### UNIVERSITY OF FLORIDA | RESEARCH ASSISTANT

January 2019 - July 2019 | Gainesville, FL

Link to Research Paper: [Investor ideology](#)

- Designed programs in Python that automatically gathered data from various pension funds.
- Utilized Selenium web driver to expose data beyond what is contained in the server's response.
- Successfully gathered over 1GB of total data to date.

## PROJECT EXPERIENCE

### TWEETAPP | TWITTER DATA VISUALIZATION WEB APPLICATION

Feb 2019 - April 2019 | Gainesville, FL

- Devised a program in NodeJS to request data from Twitter's API that was subsequently directed back to an AngularJS controller.
- Developed AngularJS controllers and factories in order to process both the data requests and the consequent parsing, formatting, and displaying of the data.
- Engineered a MongoDB schema for storing users of our application.
- Learned user authentication and session management with JSON web tokens.