

Matthew Garrison

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EDUCATION

University of Central Florida
B.Sc. in Computer Science

Expected Graduation: May 2020
GPA: 3.81

EXPERIENCE

Voloridge Investment Management

May 2018 – August 2018

Software Developer Intern

Jupiter, FL

- Developed a regression testing framework for an internal program used by researchers.
- Implemented functions in C# to compute exponentially-weighted, rolling average and variance on a stream.
- Added a new input field to an internal tool that allows the user to work with weighted functions.
- Used a Sparse Table and binary search to modify a monotonic-specific function to work on any sequence.

UCF Programming Team

Sept. 2016 – May 2018

Team Member

Orlando, FL

- Placed in the top 15% of competing students in order to join the team (based on speed and accuracy of solutions), using Java.
- 1st place in Junior/Large School division and 4th overall at 2017 Mercer contest.
- 9th place in Division 1 at 2017 Southeast Regionals.
- Spent 5 hours every Saturday practicing in a team of three to solve algorithmic problems with tight time and space constraints.

UCF College of Arts and Humanities

May 2016 – Sept. 2016

Web Developer

Orlando, FL

- Developed an email form using JavaScript, PHP, and PHPMailer that allows the 700+ students in the School of Performing Arts to submit permission number requests.
- Built a website with BootStrap for *Filthy Dreamers*, a documentary made by UCF students.

PROJECTS

Reddit probability bot

Python, PRAW, Heroku

github.com/matthewgarrison/Reddit-probability-bot

- Replies to comments that summon it by username and request dice rolls or coin flips.
- Implements 15+ optional arguments for use with roleplaying games.

SKILLS

Languages: Java, C#, Python, C, LaTeX