

Angelo Carrabba

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Education

Clemson University

Aug. 2014 – May 2018

Major in Computer Science

Minor in Mathematical Sciences

Honors College

GPA: 3.82/4.00

Departmental Honors Work

Clemson University

Aug. 2017 – Present

Applying topic modeling and hypothesis generation algorithm previously applied to medical article abstracts only and extending that to medical full-texts in order to compare the quality of generated hypotheses.

Programming Languages

General: C++ (preferred)

Java

Python

C#

C

Web: JavaScript

HTML/CSS

TypeScript

AngularJs

React

Work Experience

Full-Stack Software Engineering Intern

Blackbaud Inc.

May. 2017 – Aug. 2017

- ◊ Worked on a Scrum team in continuous release environment, picking up sprint tasks as well as working on a summer long project on **ASP.NET** framework web application with **AngularJs**. Tests were written with **SpecFlow** and **Jasmine**.
- ◊ Wrote Angular service to connect to all database pods, thereby allowing for centralized webpage to monitor properties.
- ◊ Wrote developer tool in web-page for monitoring database ETL health for all of a particular class of production databases.

Lab Teaching Assistant

Clemson University

Aug. 2016 – May 2017

- ◊ Helped teach students programming concepts in **Algorithms and Data Structures**.

Research Projects

Undergrad Research Scientist

Clemson University

Aug. 2016 – Jan 2017

- ◊ Compared PubSub performance between Kafka and MQTT in real-time simulations done with Mininet through **Python**

REU Program

Rutgers University

June 2016 – Aug 2016

- ◊ Wrote a **research paper** determining whether there are sharp-transitions in multi-agent traffic simulation written in **Python**

Personal Projects

Selection Marking Extension

github.com/acarrab/multi-cursor-emacs-mark

Aug. 2017

- ◊ Wrote and published Visual Studio Code extension implementing text selection toggling command in JavaScript.

Off the Grid Hackathon

Blackbaud Inc.

June 2017

- ◊ Built initial web service that allows for tracking of volunteer sign-up and who referred whom.
- ◊ Helped with task delegation, framework selections, architecture design, and wrote backend code within project.

Programming Team

Clemson University

Oct. 2015 – Present

- ◊ Placed 14th out of 45 in South East Regional Programming Competition (Fall 2016)
- ◊ Placed 86th out of 200 in NAIPC Invitational Programming Competition (Spring 2016)

Test Website Development

github.com/acarrab/PersonalWebsite

Aug. 2016 – Present

- ◊ Made website for personal experimentation with different web technologies hosted at people.cs.clemson.edu/~acarrab/
- ◊ Started with **HTML/css** using canvas element and created node based navigation by representing website pages as graph.
- ◊ Changed website to use Bootstrap, **TypeScript**, and **AngularJs**, which is now being used to experiment with **React** features

App Development

github.com/acarrab/DoorLockControl

Dec. 2016

- ◊ Wrote door lock opening app with friends for Android devices in **Java** and wrote embedded system code in **MicroPython**.