

Carlos A. Samaniego

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EDUCATION

Wake Forest University

Bachelor of Science in Computer Science
Major GPA: 3.29: Upsilon Pi Epsilon

Winston-Salem, NC
May 2020

SKILLS

- Technical: Python, Java, C++, SQL, JavaScript, HTML, CSS, Swift, Linux/Unix, GraphQL, Docker
- Frameworks: AWS Amplify, Flask, Django, ReactJS
- Fluent in Spanish and English

PROJECTS

Cyber Security Tools

Crypt-Breaker (Cipher Tools)

- ROT#: Python script that allows for encryption and decryption of text by utilizing every variation of the ROT method
- Frequency Analysis: Script that finds the ratio of characters used and allows substitution for decrypting given cipher text
- RSA Tool: Python Script that utilizes modular exponentiation to encrypt and decrypt data based on the principles of RSA

NBA Live Projections Web Application

Flask Application

- Built a Flask application to project current day predictions of NBA matches by web-scraping three years of NBA related data
- Implemented own feature selection algorithm using R-Squared values and compared its Average Cross Validated Mean Squared Error (ACVMSE) to other regression algorithms such as Gradient Boosting, KNN, Multi-Linear, and Decision Tree
- Designed the website's front end by using HTML, CSS, and Python using Flask's Jinja Templating engine

PROFESSIONAL EXPERIENCE

Ernst & Young

Technology Advisory Intern

Charlotte, NC
June 2019 – August 2019

- Worked within the enterprise architecture team to map 1,800 data integrations
- Developed the backend of a ReactJS web application using AWS Amplify, GraphQL, and DynamoDB, which acts as a centralized repository for data and integration information
- Wrote a python script that processed actuarial documents containing up to 26,000 comma separated values

Apptical Corp.

Software Engineering Intern

Boca Raton, FL
May 2018 – July 2018

- Processed client data into proprietary software to provide individual product recommendations for life insurance companies
- Collaborated with a team of 15 employees to facilitate the customer acquisition cycle by performing 100+ interviews
- Analyzed JavaScript and C# scripts to find and document bugs and suggested features for future deployment
- Gained an understanding of Databases and SQL by generating queries to retrieve product and client data for analysis

Wake Forest University Athletics

Captain Student Manager of the Women's Soccer Team

Winston-Salem, NC
August 2016 – Present

- Work weekly to improve ease of operations as well as aid in player development and skills training on the soccer field
- Filmed NCAA Division I ACC and non-conference matches for the benefits of the players and statistical analysis

LEADERSHIP ACTIVITIES

Organization of Latin American Students (OLAS)

Treasurer

Winston-Salem, NC
August 2016 – January 2019

- Proposed and managed a \$1000+ budget and generated reports for Student Budget Advisory Committee
- Organized campus-wide events, such as Hispanic Heritage Month celebrations, to increase awareness of Latinx culture
- Act as a liaison to advise the current treasurer with respects to financial duties and decisions in the organization

Wake Forest University Water Polo Club

Secretary & Team Co-Captain

Winston-Salem, NC
Spring 2019 – Present

- Devoted six hours a week to training and scrimmaging local colleges and universities
- Within 1 year of the club's founding, we upset JMU and UNCW to come in 5th place at Los Lobos Tournament at NC-State

American Martial Arts Academy

Brazilian Jiu Jitsu Athlete

Winston-Salem, NC
June 2016 – January 2019

- Committed six hours a week to training and attended local and international Brazilian Jiu Jitsu tournaments
- Promoted an atmosphere to interchange self-defense knowledge between students and instructor