

Nolan McCarter

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EDUCATION

University of Miami

Bachelor of Science in Computer Science – Data Science Track
Minors in Biochemistry & Molecular Biology, and Mathematics

Coral Gables, FL
Graduating May 2023

- **GPA:** 3.86/4.0
- **Honors:** Provost's Honor Roll (3 of 4 semesters) and Dean's List (all semesters); President's Scholar

PROFESSIONAL & LEADERSHIP EXPERIENCE

Thermo Fisher Scientific

Software Engineering Intern

Branford, CT

Summer 2021

- Refined clean code practices to make repository more readable and simplified complex problems
- Developed Agile framework skills for iterative development including JIRA and Confluence tools
- Utilized Git version control to collaborate with developers, ensuring code quality meets industry standards through pull requests, testing, and documentation.
- Implemented testing in IntelliJ IDEA (Java) to address SonarQube bugs and code quality issues
- Gained experience with Bootstrap, Node.js, YARN, Postman, and Angular frameworks.

CSC 210 – Computing for Scientists

Teaching Assistant

Coral Gables, FL

Fall 2021

- Guided students in grappling scientific problems with the help of numerical computations in Phaser, R, and Python through weekly help sessions
- Provided timely critiques on coding methods and techniques to advance student learning.

Johnson & Johnson, DePuy Synthes Spine Medical Device Division

Biomedical Engineer Shadow

Raynham, MA

Summer 2019

- Assisted lead engineer in test method development to evaluate the accuracy between a surgical instrument's physical location and its represented location on a surgical navigation system
- Gained insight into spinal device design, testing protocols, and regulatory compliance standards
- Learned how computer-aided software is used to support surgical procedures, such as Brainlab Spinal Navigation, Medtronic Stealth Station, and Intraoperative C-Arms.

REMAX Real Estate

Director of Public Relations

Fairfield County, CT

Fall 2018 – Present

- Conducted recurring market research to identify prospects for direct and electronic mailing campaigns
- Streamlined disparate prospect lists of over 500 leads into a consolidated database to automate personalized marketing
- Executed lead generation initiatives resulting in increased prospect meetings and property showings.

RELEVANT COURSEWORK & PROJECTS

CSC 546/646 – Introduction to Machine Learning with Applications

Coral Gables, FL

Fall 2021

- Acquired understanding of K-means, PCA, KNN, Logistic Regression, Decision Tree SVM/SVR, Neural Networks and Backpropagation machine learning algorithms
- Applied ensemble learning strategies, combining predictions from multiple models
- Employed sk-learn, Pytorch and Keras Python packages to develop basic applications in machine learning

Summer Skills Advantage Series

Coral Gables, FL

Summer 2020

- Developed and refined skills through 100+ hours of training on Code Academy platform over 6 weeks in HTML, CSS, Python, JavaScript, and Java

CSC 597/687 – Problem Solving Bioinformatics

Coral Gables, FL

Spring 2020

- Applied PERL to bioinformatics, including multidimensional arrays, regular expression, and hashing to reconstruct 3D genomes, predict protein secondary structure and protein functions.

CSC 220 - Computer Programming II

Coral Gables, FL

Spring 2020

- Utilized Eclipse IDE for Java Development to implement data structures, sorting algorithms, and recursion
- Created a search engine similar to Google using indexing and page ranking by content relevance. Web pages were mapped to their respective index, storing URLs in subdirectories by common prefixes.

ACTIVITIES & INTERESTS

Activities: VP of Recruitment IFC, AP Computer Science A Tutor, Economics Club, Pi Kappa Phi Fraternity, FunDay.

Interests/Hobbies: Biotechnology, Music, Real Estate, Lifting, Cooking, Skiing, Golf, Soccer.