

Nolan McCarter

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EDUCATION

University of Miami **Coral Gables, FL**

Bachelor of Science in Computer Science – Data Science Track – Minor in Mathematics Graduating December 2022

- **GPA:** 3.85/4.0
- **Honors:** Provost's Honor Roll (6 of 8 semesters) and Dean's List (all semesters); President's Scholar

Programming Languages

Python (3 yrs), Java (4 yrs), C (2 yrs), HTML (2 yrs), SQL (1 yr), JavaScript (1 yr), TypeScript (1 yr), Angular (1 yr)

EXPERIENCE

Thermo Fisher Scientific **Branford, CT**

Software Engineering Intern Summer 2021 and 2022

- Led backend post remediation effort to bring source code to compliance with new SDLC standards
- Implemented unit and integration testing to mitigate risks captured as bug findings grouped in eight various categories
- Working knowledge of designing and maintaining single page web applications using Angular
- Utilized Git version control to collaborate with developers, ensuring code quality meets industry standards through pull requests, testing, and documentation
- Gained familiarity with Agile frameworks (Scrum, Kanban) including JIRA and Confluence tools for metrics.

CSC 210 – Computing for Scientists

Coral Gables, FL

Teaching Assistant

Fall 2021 and Spring 2022

- 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.

REMAX Real Estate

Fairfield County, CT

Director of Public Relations

Fall 2018 – Present

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

RELEVANT COURSEWORK

CSC 540/640 – Algorithm Design and Analysis

Coral Gables, FL

- Expanded algorithmic critical thinking skills by solving complex problems regarding algorithmic design and analysis, data structures, and complexity analysis.

Fall 2022

CSC 423/623 – Database Systems

Coral Gables, FL

- Learned about design, modeling, implementation, and management methodologies and techniques through hands-on experience with different database systems.

Fall 2022

CSC 546/646 – Introduction to Software Engineering

Coral Gables, FL

- Studied Software Development Life Cycle, requirements engineering, system design and architecture, and quality assurance and testing
- Mastered class diagram modeling using UML diagrams.

Spring 2022

CSC 546/646 – Introduction to Machine Learning with Applications

Coral Gables, FL

- 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.

Fall 2021

Summer Skills Advantage Series

Coral Gables, FL

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

Summer 2020

CSC 597/687 – Problem Solving Bioinformatics

Coral Gables, FL

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

Spring 2020

ACTIVITIES & INTERESTS

Activities: VP of Recruitment IFC, AP Computer Science A Tutor, Data Analytics Student Association, Canes Fight Cancer, Pi Kappa Phi Fraternity, FunDay.

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