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:** 3.84/4.0
- **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**
                                                                                                                              Fall 2022
- Expanded algorithmic critical thinking skills by solving complex problems regarding algorithmic design and analysis, data structures, and complexity analysis.

CSC 423/623 – Database Systems   **Coral Gables, FL**
                                                                                                                              Fall 2022
- Learned about design, modeling, implementation, and management methodologies and techniques through hands-on experience with different database systems.

CSC 546/646 – Introduction to Software Engineering   **Coral Gables, FL**
                                                                                                                              Spring 2022
- Studied Software Development Life Cycle, requirements engineering, system design and architecture, and quality assurance and testing
- Mastered class diagram modeling using UML diagrams.

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.

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.