Nicholas Solages

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EDUCATION

University of Miami — **Coral Gables, Florida**
B.S. in Computer Science & B.S. in Mathematics – GPA: 3.7 — December 2024

- **Honors:** Foote Fellow Honors, Dean's and Provost's List for all semesters, President's Scholarship
- **Relevant Coursework:** Operating Systems / System Programming (C) / Data Structures & Algorithms / Discrete Maths / Computer Org & Arch / Problem Solving for Bioinformatics (Perl)

TECHNICAL SKILLS

Languages: Very Proficient in Java, C, and Python; Proficient Perl
Applications: Linux & PuTTY; Excel; AWS; Git; HTML

EXPERIENCE

UM XR Innovate Program — **Coral Gables, Florida**
Apprentice Developer — November 2022 – Present

- Employ Unity APIs to optimize application performance, ensuring seamless interactions. Incorporate C# scripting to implement interactive features and realistic simulations, enhancing user experience.
- Utilize Agile methodologies, particularly SCRUM as primary development framework for projects. Daily meetings, shadowing members, & target goals in tandem with project team

PWC — **Manhattan, New York**
Start Intern — June 2023 – Aug 2023

- Implemented machine learning models to extract meaningful insights from the integrated datasets, enabling predictive analytics, natural language processing (NLP), and data clustering for trend identification and deeper insights.
- Integrated AI virtual chatbots with enhanced NLP capabilities & dialog management through Power Virtual Agents to enhance current AI functionality & improve overall customer/client engagement

Bioinformatics Lab — **Coral Gables, Florida**
Research Intern — Jan 2023 – May 2023

- Leveraged supervised learning techniques through Random Forest algorithms for multi-class classification to predict protein secondary structure by training RF models through integrated scripts
- Determined optimal parameters, balanced predictive accuracy and model complexity by implementing machine learning techniques through 5-fold cross-validation

TECHNICAL PROJECTS

(C) Fibonacci Interface-Pipe-Thread Server Program

- Managed signal handling for CPU usage control, multithreading to parallelize Fibonacci number computations, interprocess communication between serve and UI program with pipes, and resource management to maintain system stability all to optimize system performance and resource utilization

(Java) Puzzle Maze

- Programmed AI functionalities allowing for independent action without user inputs through Breath-First and Depth-First search algorithms
- Generated list of mazes through two-dimensional array of nodes & stored in file directory for variety of levels for the player's decision; Utilized stacks/graphs to generate & calculate optimal path

LEADERSHIP/PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow
Career Prep Fellow — March 2023 – Present

- Selected among 5000+ applicants to Career Prep program for professional & leadership development
- Complete business case studies and assignments to hone analytical, quantitative and technical skills