Demarcus Simmons

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Objective:

Highly motivated and detail-oriented computer science graduate seeking a challenging position to leverage skills and knowledge in software development, data analysis, and problem-solving. Committed to delivering innovative solutions and contributing to the growth of a dynamic organization.

Education:

Bachelor of Science in Computer Science w/ minor in Computer Eng. (Fall 2023)
University of West Florida, Pensacola, FL
Relevant Coursework: Artificial Intelligence, Distributed Software Architecture I, Secure Software Development, Computer & Network Security, Digital Logic & Computer Systems, Microprocessor Applications, Digital Design, and Digital Computer Architecture
Honors and Achievements:
- Dean's List (Dec. 2019, May 2020, Dec. 2020)
- STEM Scholar

Skills:

Programming Languages: Java, C++, Python, JavaScript, R, Lisp
Web Technologies: HTML, CSS, PHP, React
Databases: SQL, MySQL, Oracle
Frameworks: Django, Spring, Angular
Tools: Git, Docker
Operating Systems: Windows, Linux, macOS
Data Analysis: Pandas, NumPy
Problem-Solving: Analytical thinking, Debugging, Troubleshooting
Teamwork: Collaboration, Communication, Adaptability

Projects:

1. Unlink (Capstone Project, Java)
- Designed and developed a privacy tool using Java, and CSS.
- Created using the client/server architecture
- Implemented secure user authentication and authorization using SHA512.
- Utilized MySQL database for storing user information and account details.
- Deployed the application on a local server for testing and debugging.

2. 32-bit MIPS Processor (VHDL)
- Developed a 32-bit MIPS Processor using VHDL.
- Supports load, store, branch, and basic R-type instructions (Add, Subtract, And, Or, Nor, Set on Less Than).

- Includes 5 stages in the pipeline (fetch, decode, execute, memory, and write-back).
- Implemented a hazard unit and forward unit to deal with control and data hazards.
- Debugged and tested the processor using QuartusPrime and an Altera FPGA ASIC dev board.

Work Experience:

Technical/Specialized Skills Assistant
The University of West Florida, Pensacola, FL
JAN 2022 - MAY 2023
- Collected data to capture the skills and knowledge needed for Quantum-resistant encryption, Supply chain security, Autonomous vehicle security, Zero trust, and Ransomware so as to develop high-quality and relevant curricula
- Conducted comprehensive quantitative and qualitative analysis of available cyber curricula
- Performed gap analysis to identify high-need areas to create a cyber-ready workforce
- Produced excel and word documents relating to research on targeted areas

Student Assistant
The University of West Florida, Pensacola, FL
SEP 2019 - NOV 2019
- Analyzed smart card data and security using Java and its smartcardio API.
- Produced powerpoint documents relating to research on OBD.
- Conducted research on blockchain technologies and vehicle security.

Intern, ACE
Escambia County School District, Pensacola, FL
JAN 2019 - MAY 2019
- Shadow worked with several departments, including electronics and HVAC.
- Troubleshooted and repaired faulty electronic parts/wires at different schools.
- Moved furniture and items from schools to storage facility.

Intern, ACE
Gulf Power/NextEra, Pensacola, FL
AUG 2018 - JAN 2019
- Visited and spoke with professionals in many departments, including technology.
- Learned about day-to-day activities and ways to succeed in each field.
- Studied powerplant operations, electricity, and safety.

Volunteer
Habitat for Humanity, Pensacola, FL
OCT 2018 - DEC 2018
- Loaded and Unloaded furniture and items to and from truck and storage facility.
- Refurbished furniture by ways of cleaning, vacuuming, etc.
- Restocked the sales floor

Leadership and Involvement:
- Organized and led Cyber Security programming bootcamp.
  - Mentored freshmen students and facilitated knowledge sharing within the camp.
- Member of UWF Cyber Club
- Member of UWF ACM Club

Certifications:
- Silver President's Education Award for Outstanding Academic Achievement
- Excellent Effort in Science Certificate

Languages:
- English (Fluent)
- Spanish (Intermediate)

References:
Available upon request