C. Sergio Vavra

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EDUCATION

James Madison University, B.S. Computer Science - Harrisonburg, VA   Expected May 2026
- Junior and a half academic standing as a second-year student, 2x presidents list, 2x deans list.
- 3.742 GPA having taken Software Engineering, Computer Systems, and other high level CS courses.

Yorktown High School - Arlington, VA   Graduated June 2022
- 4.2/3.86 weighted/unweighted GPA having taken multiple complex AP courses.

Google Data Analytics Professional Certificate   Completed June 2023
- Completed a collection of eight rigorous courses developed by Google that included hands-on, practice-based assessments that were designed to prepare students for introductory level jobs in data analytics.
- Learned to adapt to asynchronous learning style and implement high level techniques in spreadsheets, SQL, Tableau, and R to prepare, clean, process, analyze and share data.

Google IT Support Certificate   Completed June 2022
- Proficiency in command line input and output, PowerShell, and Java.
- Sufficient knowledge on hardware, troubleshooting, networking, and software.

PROFESSIONAL EXPERIENCE

Computer Science Student Researcher - James Madison University, VA.   November 2023 - February 2024
- Developed and implemented a Rasa chatbot leveraging AI and machine learning methodologies as part of a research project under Professor Isaac Wang at JMU.
- Utilized Python to design and customize chatbot actions, demonstrating proficiency in leveraging programming languages for tailored solutions in AI-driven applications using machine learning.

Server and Sales Clerk - Pastries by Randolph, VA   August 2020 - August 2023
- Greeted and assisted customers with a friendly and welcoming demeanor, ensuring a positive customer experience.

LEADERSHIP EXPERIENCE

Project Coordinator - Technology Student Association, Yorktown High School, VA   September 2018 - June 2022
- Brainstormed and designed a new technology with 3 other members, planning and designing the technology using the 8 steps of engineering design.
- Coordinated weekly meetings during meeting times, as well outside of club times to ensure work was completed efficiently and properly.

PROJECT EXPERIENCE

Personal Project | Single Thread Von Neuman CPU - CS 261 Final Project, JMU   August 2023 - December 2023
- Successfully designed and implemented the Von Neumann architecture, encompassing the CPU, memory, and control unit in C.
- Employed effective debugging techniques to identify and resolve issues, showcasing problem-solving skills in low-level programming.

Personal Project | Multi-Functioning Calculator - CS 345 Final Project, JMU   October 2023 - December 2023
- Leveraged Java programming language to architect and develop core functionalities of a multi-function calculator, ensuring robustness and efficiency in computational operations.
- Led Scrum implementation, driving daily stand-ups, sprint planning, and retrospectives to meet project milestone.

Personal Project | Professional Website with AI Integration- Personal Project, JMU   June 2024 - Current
- Designed and developed a professional website integrating a Rasa chatbot, utilizing CSS, JavaScript, and HTML for a seamless user experience and enhanced interactivity.
- Implemented advanced chatbot functionalities, enabling efficient user communication and support directly through the website interface.

Personal Project | ActivityMixr - CS 343 Semester Project, JMU   January 2023 - Current
- Implemented multiple API's to create an interactive website allowing the user to create a personalized playlist for their chosen activity.
- Implemented user authentication and playlist management features, enhancing user experience and engagement through a seamless interface and intuitive design.

TECHNICAL SKILLS

Operating Systems - Windows, MacOS, Linux, Unix
Software - Proficient in GitHub, Windows PowerShell, MacOS Terminal, Tableau, Stu.
Programming Languages - Advanced in Java, Python, C, HTML, CSS, JavaScript. Knowledgable in SQL, R.