

C. Sergio Vavra

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EDUCATION

- James Madison University, B.S. Computer Science** - Harrisonburg, VA Expected May 2026
- Junior academic standing as a second-year student taking programming, math and problem solving classes.
 - 3.654 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 - Current
- 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 & COURSEWORK 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 while managing codebase iterations via GitHub.
- Software Engineering** - CS 345, James Madison University August 2023 - December 2023
- Acquired proficiency in software engineering principles, methodologies, and tools, enabling effective software product development, problem-solving, and decision-making.
 - Gained expertise in agile methodologies through a half-semester long group project using Scrum.
- Application Development** - CS 343, James Madison University January 2023 - Expected May 2023
- Gained expertise in HTML, CSS, and JavaScript to produce high quality, efficient, and visually pleasing websites and applications.
 - Demonstrated practical application through hands-on coding assignments and collaborative projects, fostering proficiency in CSS, JavaScript, and HTML.

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.