Jerome Donfack

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EDUCATION

Germanna Community College, Fredericksburg, VA   Aug 2022-Dec 2023
Associate of Arts and Science, Computer Science
> **GPA:** *4.00*

James Madison University, Harrisonburg, VA   Jan 2024-Dec 2025
Bachelor of Science, Computer Science
> **GPA:** *3.98*

> **Relevant Coursework:** *Object-Oriented Programming, Data Structures Analysis of Algorithms, Discrete Structures I/II, Computer Systems I/II, Applied Algorithms, Application Development, Web Development, Programming Languages*

EXPERIENCE

Henrico County   May 2025-Aug 2025
Web Intern II
- Rebuilt and modernized the Henrico iOS app using Swift and SwiftUI, focusing on a clean architectural redesign.
- Developed a thread-safe caching system using SwiftData, integrating a struct-class transfer system to safely manage and send data across threads.
- Engineered an asynchronous API request handler capable of managing single or concurrent requests, with built-in caching and task coordination.
- Designed and implemented dynamic UI screens for displaying API-driven content and navigating seamlessly throughout the app.
- Authored clear user documentation and conducted thorough, well-structured testing to ensure usability and reliability.

Hachi   Jan 2025-May 2025
Software Engineer
- Shaping the future of efficient collaboration by developing a high-performance prototype using modern technologies.
- Designed and built a scalable prototype using React.js, Playwright, and Pydantic.
- Implemented end-to-end testing with Playwright to ensure reliability and performance.
- Collaborated with cross-functional teams to integrate backend and frontend solutions seamlessly.

MusicCPR   May 2024-Aug 2024
Software Engineer
- A research project led by Professor Michael Stewart meant to facilitate learning for musically inclined students.
- Collaborated to design the pages of the website, such as the landing page and about pages, implement audio waveforms, and format code to specific coding styles, as well as fix any errors in the code.
- I helped gather data for a research paper on the related topic and worked with peers to identify onboarding issues and improve the development area.

PROJECTS

- **Personal Portfolio Site:** *Developed a personal portfolio website using HTML, CSS, and JavaScript to showcase my resume, upcoming projects, and finished coding projects. Integrated GSAP and Three.js to enhance interactivity and visual appeal. purejerome.github.io/jeromewebsite*
- **AutoRE:** *A custom Chrome extension built with JavaScript and the Chrome Extensions API. It automates interactions on the RepostExchange site by screen-reading and simulating common human clicks on the site, reducing manual effort and improving efficiency. https://github.com/purejerome/AutoRE*
- **GPS:** *Created a basic GPS made in Java in my Personal Navigation Systems class. This GPS had the capability to reroute, read different geo files and convert them to a map, read in geo location data, and map match geo location data to the map printed on screen. https://github.com/purejerome/finalBackUp*
- **UnitED:** *A custom calculator made in my Software Development class using Java. The main functionalities of the calculator included basic arithmetic, exponent and decimal compatibility, unit conversions, a saved and printable history of calculations, a web help page, and persistent settings.*
- **SHOWSCOPE:** *A frontend only website created for my Application Development class using HTML, CSS, and JavaScript. This website was designed to view lists of popular movies, TV shows, and anime, and store users' reviews and ratings using local storage. It used the MyAnimeList and IMDb APIs to collect and present data. https://github.com/purejerome/CS-345-groupfinalproj*
- **TASync:** *A full stack website made with React and Django for my Web Development class. This website served as a place to schedule TA hour shifts for students, TAs, and educators to interact with. This used many React/JavaScript libraries such as ChakraUI, TanStack Router, and OpenAPI.*

- **Curses Spreadsheet:** *A spreadsheet built using Ruby and the Curses gem for my Programming Languages class. It used a custom made programming language to be used in the cells. Each cell could either store primitive data, evaluate code, reference other cells, or any combination of the three.*
- **y86 Simulator:** *A computer architecture simulator coded in C for my Computer Systems I class. This project simulated a simplified version of the x86 architecture to understand the fundamentals of the architecture, such as memory, assembly, registers, instruction sets, and the basics of the C programming language.*

SKILLS

Programming Languages: *Java, Python, Ruby, C, Swift, JavaScript, HTML, CSS*
Frameworks/Tools: *React.js, SwiftUI, Git, Playwright, Django, GSAP, Three.js*

HONORS AND AWARDS

- President's List
- Dean's List