**Hunter Fasnacht**

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Dedicated Computer Science student specializing in AI and software development, with proven experience in full-stack and AI development. Successfully architected and deployed production-ready applications using cloud infrastructure. Demonstrated ability to develop and implement complex software solutions while effectively communicating with diverse collaborators. Currently contributing development of an innovative avatar-based chatbot system for UNCW's Nursing program, showcasing abilities in both technical implementation and cross-departmental collaboration.

**EDUCATION**

**University of North Carolina Wilmington** | Bachelor of Science in Computer Science (Concentration in Artificial Intelligence)  
*Expected Graduation*: May 2025

* **Relevant Coursework:** Computer Networks, Software Engineering, Database Design and Implementation, Object Oriented Programming

**EXPERIENCE**

**Full-Stack Developer** August 2024 - Present

University of North Carolina Wilmington | Remote

* Collaborated with Nursing and Computer Science mentors to develop an avatar-based chatbot for the UNCW Nursing program, enhancing student engagement and learning
* Managed end-to-end development of the avatar-based chatbot system, coordinating between nursing and computer science requirements while meeting project deadlines
* Effectively communicated technical concepts to non-technical nursing staff, demonstrating ability to explain complex issues to diverse audiences

**PROJECTS**

**Personal Portfolio** | [hfasnacht577.github.io](http://hfasnacht577.github.io)| *Javascript, HTML/CSS* February 2025 - Present

* Developed a **fully responsive portfolio website** to showcase technical projects, skills, and professional experience.
* Built from scratch using **HTML, CSS, and JavaScript**, featuring a clean and modern design with interactive elements.
* Includes a homepage, about me section, project gallery, and a downloadable resume for easy access.
* Deployed on **GitHub Pages** with optimized performance and mobile responsiveness.

**Sim-U** | *Python, Javascript, HTML/CSS, AWS* August 2024 - Present

* Designed and deployed a scalable web application using **AWS EC2,** ensuring high availability and performance.
* Developed responsive front-end interface using **Python FastAPI, HTML/CSS, and JavaScript.**
* Implemented advanced NLP features including speech transcription and speaker diarization for video processing.
* Engineered a RAG-based system using **MongoDB** and **Ollama** models for intelligent text generation and data processing.
* Optimized application performance through efficient database queries and frontend optimization.

**MasterList** | *Javascript, HTML/CSS* August 2024 - December 2024

* Developed a comprehensive **web-based media rating and categorization platform** supporting multiple entertainment formats.
* Architected **MongoDB** database schema for optimal performance and scalability.
* Led frontend development using modern **JavaScript** practices and responsive design principles.
* Implemented user authentication and personalized recommendation features.

**SKILLS**

**Languages:** Python, Java, HTML/CSS, JavaScript, SQL

**Frameworks/Libraries:** Flask, FastAPI, Pandas, NumPy, Tensorflow, Node.js

**Developer Tools:** Git, VSCode, PyCharm, MongoDB, AWS (EC2, S3), Linux

**Skills:** Machine Learning, Data Analysis, Cloud Architecture, CI/CD, Agile Development