Michael Hood

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EDUCATION

West Chester University West Chester, PA

Bachelor of Science in Computer Science — Certificate in Computer Security

EXPERIENCE

Johnson & Johnson Neuroscience Medical Affairs Intern June 2024 – October 2025

Completed

- Completed a summer internship with Medical Affairs, and was granted the opportunity to stay onboard indefinitely
- Acted as lane of communication between the tech team and medical affairs, offered insight into the field of artificial intelligence
- Led the development of multiple in-house AI driven data analysis tools

RELEVANT COURSEWORK

CSC 141: Computer Science I Fall 2022

- Introduced to programming fundamentals using Java, including variables, control structures, and problem-solving techniques

CSC 142: Computer Science II Spring 2023

- Advanced programming concepts; developed understanding of object-oriented programming principles

CSC 220: Foundations of Computer Science Spring 2024

- Explored inheritance, polymorphism, abstraction, exception handling, and data serialization

CSC 231: Computer Systems Fall 2023

- Studied computer organization and architecture, including CPU design and machine-level programming

CSC 240: Computer Science III Fall 2023

- Focused on software engineering principles, design patterns, and advanced OOP techniques

CSC 241: Data Structures & Algorithms Spring 2024

- Analyzed sorting, searching, and graph algorithms with emphasis on efficiency and scalability

CSC 301: Computer Security & Ethics Fall 2024

- Learned fundamental concepts of computer security including confidentiality, integrity, authentication, and ethical issues

CSC 335: Data Communications & Networking I Fall 2024

- Examined computer networking concepts including protocols, architectures, and data transmission

CSC 345: Programming Languages & Paradigms Fall 2024

- Compared programming paradigms including functional, procedural, and object-oriented approaches; implemented a Java GUI calculator

CSC 402: Software Engineering In Progress, Fall 2025

- Capstone course focused on systematic design, development, and testing of software systems, through a project based approach

CSC 495: Topics in Computer Science, Cloud Engineering In Progress, Fall 2025

- Exploring advanced topics in Cloud Engineering through a project based approach

Projects

Email (Spam/Not-Spam) Filter | *Java*   October 2023
- Developed a Java program to determine whether an email is spam or not
- Used statistical methods like bigram and keyword distance, and average word length to classify emails

In House Medical Training Development Program   Summer 2025
- Led the development of a LangChain RAG-centric program that optimized the training process for new hires in the field of Medical Affairs

Technical Skills

Languages: Python, C, Java
Developer Tools: LangChain, Git, Visual Studio Code, Power BI, Hugging Face, PowerApps