Taylor Williams

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Career Objective

I'm a motivated senior computer science student most proficient in C++, Python and SQL, with a strong foundation in computer security principles and extensive hands-on experience in software development. Seeking a challenging role upon graduation to apply my expertise in computer networks, database management, and artificial intelligence, with a focus on contributing innovative solutions to real-world challenges.

Education

University of Michigan - Dearborn | BS Computer & Information Science   **Expected in 04/2024**

Major/Concentration: Computer & Information Science

Relevant Courses: Computer Networks and Distributed Processing, Database Management, Operating Systems, Intro to Artificial Intelligence, Web Technology, Practical Computer Security

Certificate

Practical Aspects for Computer Security (PACS)   **January 2024**

- This certificate provides a foundational knowledge in computer security principles, firewalls, malware, intrusion detection, physical security, wireless network security, mobile device security, social network security, and web application security.

Skills

Languages: C, C#, C++, Python, SQL, HTML, CSS, JavaScript, PHP

Development/Software Tools: Microsoft Office (Excel, PowerPoint, Word), Git, GitHub, Docker Desktop, Oracle, Oracle VM VirtualBox, SQL Developer, Microsoft Visual Studio, Visual Studio Code, Jenkins, Eclipse IDE, Bitvise SSH Client, WinSCP, Microsoft Azure, Microsoft SQL Server Management Studio, ASP.NET Core

Operating Systems: Linux/Ubuntu, xv6, Windows

Projects

Online Stock Trading System | *Python, SQL, Bitvise SSH Client, Visual Studio Code*

- Trading application that permits multiple clients to connect to a server simultaneously, utilizing python threads and TCP sockets.
- Authorizes clients to login/logout, list their records, view active users on server, lookup stock names, buy/sell stock, view their current balance, deposit USD into their account/record.

Database Management System | *SQL, Oracle, SQL Developer*

- Created a relational database for a restaurant enterprise.
- Designed useful queries and updates for the enterprise's database application.
- Utilized querying language SQL and Oracle application on a real DBMS.

AI Learning Tool, "Llama Lingo" – Ongoing Senior Design Project | *C#, HTML/CSS, Blazor, Microsoft Azure, Microsoft SQL Server…, ASP.NET Core*
- Developing an educational software web application, using data information analyzed from AI applications like ChatGPT and Llama 2, stored within a Microsoft Azure Cloud storage account.
- Focus on data science elements, data analytics, and data management.
- Application will act as an expert on a topic that a user (students, employees, hobbyists, etc.) can ask questions too.
- In this project I am assigned as project manager, I delegate group activities, set meetings, and speak with the client firsthand.

Traffic Control System | *C, Docker Desktop, xv6, Linux, Visual Studio Code*
- Simulates a traffic control system utilizing programming language C (pthread lock(s) and semaphores), and Linux.
- Controls traffic at an intersection where cars can come from the North, South, East, or West.

Work Experience

HomeGoods, TJX Companies | Store Associate, Awareness Mentor   **2018 - Current**

- Awarded Employee of the Month for the second quarter of 2020.
- Assisted customers with product selection, pricing, availability, and payments.
- Stocked shelves with merchandise and maintained inventory levels.