**Hammad Ahmad**

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**Education**

## Penn State Harrisburg Harrisburg, PA

*Bachelor of Science in Computer Science Expected Graduation: Dec 2024*

* **Relevant Coursework:** Programming Fundamentals, Object-Oriented Paradigm, Data Structures and Algorithms Analysis, Database Management Systems, Application Development in Visual Languages, Software Design and Development, Machine Learning, and Artificial Intelligence.

**Experience**

**E-Commerce Engineer Elizabethtown, PA**

*SupplyTiger Nov 2023 – Feb 2024*

* Worked with AWS and Walmart to sell and advertise product listings from Mars, Hershey’s, Reeses and many other famous candy brands.
* Used Shopify and Front-End Languages to improve the official website.
* Used existing AI technology and modified it in Google Colab to automate social media advertisement on Pinterest and YouTube.

**ProjectS**

* **Senior-Year Capstone Project:** Worked with a 3-man team to create a Pre-Calculus Tutor inspired by Duolingo to include a vibrant, entertaining, and motivating reward system including badges, levels, leaderboards, and competition. Using React and MySQL.
* Used JavaFX GUI to create a Swipe-In Door using a formatted ID, different user types, and an interactable MySQL database built using Scene Builder for Admins to add, delete, edit, activate, and suspend users.
* Implemented a Landlord-Tenant Management System as a Web-Based App in PHP.
* Created an interactable online pizza shop in Java and MySQL which allows admin users to update an interactable MySQL database and allows users to interact with the front shop and purchase items, masking payment info and keeping security in mind.
* Designed a Binary Math Tutor Program in Java using an interactable GUI which presented random questions of varying difficulties and a grading system.
* Inspired by a Bible Reading Generator website to create a website to generate Quran reading planners which assign daily readings to enable readers to finish reading the Quran in equally divided readings in desired days using JavaAPI JQuranTree and Front-End Language. (in-progress)
* Worked with a 4-person team to create a Boat Rental app which allowed users to rent boats with varying prices based on boat type and rental durations. It allows the purchase of multiple tickets at once along with discounts.
* Designed programs in Java and C++ to detect palindromes and anagrams in word searches.
* Implemented popular Data Structures and Algorithms with and without Standard Libraries to gain an in-depth understanding of their mechanisms.
* Practiced creating E-Commerce and Recipes Websites using CSS, JavaScript, HTML, and PHP.
* Practiced integrating Copywriting and Video Editing with Front-End Skills.
* Created portfolio website linked to GitHub to present some of the above achievements.

**Additional Skills**

* Technical skills: Java, C++, JavaScript, Python, CSS, HTML, PHP, WordPress, React, MySQL.
* Expertise in programming, database management, full-stack web development, video editing, digital marketing, and copywriting.
* Languages: Native Fluency in English, Urdu, Hindi, Arabic (B2).