KHAWAJA HUSSAIN AHMED

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GitHub | LinkedIn

EDUCATION

DEPAUW UNIVERSITY   **Aug 2021 - May 2025**

Bachelor of Arts in Computer Science, minor in Data Science & English Literature
- **Cumulative GPA**: 3.50/4.00
- **Relevant Coursework:** Intro to Java, Data Structures & Algorithms, Object Oriented Software Development, Foundations of Computation, Computational Discrete Mathematics, Calculus 1, 3D Game Development, Computer Systems, Data Mining, Data Science, Data Vis. With Tableau, Artificial Intelligence, Statistics for Professionals.
- **Awards**: Kneale Scholarship, International Merit Grant and Margaret Noble Lee Debate Prize.
- **Leadership**: Lead Resident Assistant, Events Coordinator MSA; Founder & VP, Table Tennis Club.

PROGRAMMING PROJECT EXPERIENCE

AI/ML Engineering Intern
Nims: A Reinforcement Learning AI Game in Python   **Apr 2024 – May 2024**
- Utilized Q-learning to optimize the computer's moves, achieving substantial AI agent learning within **6** game iterations.
- Implemented **4**+ unit tests in **Python** using 'unittest', improving software reliability and codebase maintainability.
- Completed **6**+ **git** commits via **Git CLI**, ensuring version control and streamlining project organization.

Data Science Intern
NFL Quarterback Ratings Data Analysis   **Jan 2024 – Feb 2024**
- Developed a **Python** script with **pandas** and **statsmodels**, slashing feature extraction and data loading time by **40%.**
- Implemented feature extraction techniques, increasing model clarity and boosting prediction accuracy by **15%**.
- Automated quarterback rating analysis, significantly decreasing manual effort by **80%**.

Data Analysis and Research Intern
Statistical Analysis of Graduate Debt in R: Small v Large Private Universities   **Nov 2023 – Dec 2023**
- Conducted a two-sample t-test using **R** to compare graduate debt, boosting analytical precision by **20%.**
- Analyzed data from **85**+ universities, identifying debt differences and enhancing stakeholder understanding by **18%.**
- Created **4**+ visualizations employing **ggplot2** in **RStudio**, accelerating data interpretation time by **30%.**

PROFESSIONAL EXPERIENCE

3D Printing Team Lead - Tenzer Technology Centre @ DePauw   **Jun 2023 – Aug 2023**
- Led a **2-person** team to optimize 3D designs, increasing client satisfaction by **20%**.
- Developed intricate 3D **CAD** models with **95%** design accuracy, significantly improving product visualization and reducing material waste by **15%**.
- Troubleshot issues in 3D models and printing processes, minimizing delays by **25%** ensuring on-time project delivery.

Lead UI Designer & Presenter – WiCS @ DePauw   **Nov 2022 - Dec 2022**
- Pitched an **iOS** app **UI** designed with **Figma**, boosting student-career connections by **30%.**
- Secured **3rd** place in the hackathon, outperforming **20**+ contestants with a **90%** assessment score.

SKILLS & EXPERTISE

Technical Skills
- **Programming Languages**: Python, R, C++, Java, Swift, assembly, C#, SQL.
- **Technologies/Frameworks**: git/GitHub, Markdown, Linux/Bash Scripting, Tableau, Figma, Unity Hub, Cura, Visual Studio, CAD, numpy, matplotlib, statsmodels, assemblyai, openai-whisper, elevenlabs, ollama/llama3, Excel, Google Sheets, SQLite, Java API, SwiftUI, RStudio.

Work Skills
- **Soft Skills**: Strong communication and interpersonal skills; creative problem-solving; leadership; multi-tasking and team building; and comfort in a fast-paced environment, proactive problem solving.
- **Interests:** Eager and curious about learning and tackling complex problems in unfamiliar domains.
- **Languages**: Fluent in English, Urdu and Punjabi; Elementary proficiency in Arabic.