
Education

Purdue University, West Lafayette, IN

Bachelor of Science in Computer Science

Expected 2027

Conestoga High School, Berwyn, PA

2020 – 2024

- GPA: Weighted: 5.02, Unweighted: 3.95

Languages: Java, Python, R, C#, HTML5/JS, CSS3, pSQL, XAML, Shell

Frameworks: Linux, Git, .NET, VSCode

Concepts: Statistics, Data Analysis and Research, OOP, Algorithms

Work Experience

LUM Math Tutor – Lafayette Urban Ministry

September 2024 - Present

- Utilized personalized lessons for 1:1 or group teaching, improving student engagement
- Monitored student behavior to promote a healthy learning environment, leading to increased classroom focus and participation

Projects

Mobile App for Guild Wars 2 Builds | .NET Xamarin Forms, C#, XAML, SQL

November – December 2023

- Developed a mobile app to edit and save character builds from the game Guild Wars 2.
- Implemented asynchronous functionality and database processing with SQL to localize saves within the app.
- Utilized MVVM architecture for implementing .NET Xamarin Forms.

Go Engine | Python

May 2023

- Designed and developed a Python engine to run the board game Go, complete with scoring and player assignment.
- Utilized heuristics to create a realistic influence mapping function for mid-game analysis.
- Drew inspiration from research papers on graphing the influence of stones in incomplete positions to enhance the engine's analytical capabilities.

Statistical Study on relation between Income and Flu Vaccination Rate | R Studio

December 2023

- Designed and carried out a study utilizing an SRS of data from the US Census Bureau and the CDC.
- Through regression analysis of LSRL and correlational models conducted a moderately strong correlation between the two factors, while noting potential confounding factors.
- Modelled after a similar observational study conducted examining the relationship between per-capita income and COVID-19 vaccination rates.

Volunteer Experience

English Teaching Volunteer Program

Summer 2023

Sponsor: Overseas Community Affairs Council of The Executive Yuan of Taiwan

- Completed 1 week of training for English teaching in Taipei.
- Taught English full-time to ~25 middle schoolers at a rural school in Tainan.
- Developed academic lesson plans and activities for student engagement in collaboration with 3 local English teachers.

NHS Tutoring

2022-2024

Sponsor: National Honor Society

- Volunteered as a tutor at the local middle school, assisting ~20 students in subjects such as English, Math, and Social Studies.