Staas Lin

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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 2021*
- 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.