

Education

Purdue University, West Lafayette, IN

Bachelor of Science in Computer Science

Bachelor of Science in Statistics

Expected 2027

Conestoga High School, Berwyn, PA

2020 – 2024

- GPA: Weighted: 5.02, Unweighted: 3.95
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Languages: Python, R, Java, C#, HTML5/CSS3, JS, pSQL, XAML, Shell

Frameworks: Linux, Git, NumPy, .NET, VSCode

Concepts: OOP, Algorithms

Coursework: Mobile App Development, Web Development, Introduction to PostgreSQL, Object-Oriented Programming, AP Statistics, Multivariable Calculus

Work Experience

Mathematics Tutor – *Lafayette Urban Ministry*

September 2024 - Present

- Teach small groups of students or one-on-one
 - Monitor behavior of students to promote a healthy learning environment
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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 design.

Go Engine | Python

May 2023

- Designed and developed a Python engine to run the board game Go/Weiqi, 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 Experiment on Effect of Formality on Writing Utensil Selection | R Studio

December 2022

- Designed and carried out an experiment involving 129 participants which measured the participant's choice of writing utensil after being presented with a designed maze.
- Collected and cleaned data for usage in analysis.
- Utilized Chi-squared Test for Independence and 2 Sample T-Interval in data analysis.

Graphical Adventure Game | Python, Pygame

December 2021

- Independently developed a Pygame application, placing 3rd in the 2021 CodeFest Alpha hackathon.
 - Implemented user choices that dynamically influenced in-game statistics and options.
 - Developed comprehensive inventory and loot systems to enhance
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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 26 middle schoolers at a rural school in Tainan.
- Developed academic lesson plans and activities for student engagement in collaboration with 3 local English teachers.