**Yunhan Huang**

307 Montefiore Street, West Lafayette, IN 47905 | (757)837-1409 | [yunhanhuang.work@gmail.com](mailto:yunhanhuang.work@gmail.com)

# Education

## Purdue University Main Campus, West LAfayette AUG. 2019 – MAY 2023

*B.S. in Computer Science*

*B.S. in Game Design and Development*

* **Cumulative** GPA: 3.74/4.0
* **Related coursework**: Object-Oriented Programming with Java, C programming Language, Discrete Mathematics, Computer Architecture, Data Structure and Algorithm; Computer Graphic Programming, Computer Animation, 3D Modeling in Maya, Game Development
* Dean’s List at Purdue Polytechnic Institute

# Experience

## Undergraduate Research Assitnat | Kihara lab Purdue university | Aug 2021 – Present

* Data dimensionality reduction on protein data bank entries using Python, and analyze the relationship between protein shapes and other protein attributes
* Implemented 3D computer graphic in web browser using Three.js to build user interactable website for the protein data after dimensionality reduction with PCA and UMAP.

# Skills & Abilities

## Programming

* **Programming Language**: Java, C/C++, Python, JavaScript, HTML/CSS
* **Toolkit/Frameworks**: (Python) Numpy, Scikit Lean, UMAP, RAPIDS, Matlibplot, Pandas; (JavaScript) Three.js; (Platforms) Git, Linux, Google Colab.
* Have a good understanding of Object-Oriented Programming, multithreaded programming, and socket in Java; familiar with composing basic Junit tests and debugging pipeline.
* Decent experience in data visualization (dimensionality reduction algorithm: PCA, t-SNE, and UMAP) and website building

## Game Development

* **Modeling Software**: Autodesk Maya 2020, Zbrush
* **Game Engine**: Unreal Engine 4, Unity
* Familiar with game development pipelines and team-working skills