

# Michael Yang

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## EDUCATION

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**Vassar College**  
*Bachelor of Arts, major in Computer Science*

**Poughkeepsie, NY**  
**Expected May 2024**

## PROJECTS

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### **Android Roguelike Game - Java, Git**

- Collaborated with a team to create an interactive, functional Android application following industry best practices such as MVC architecture, OOP principles, and Agile methodologies
- Designed and constructed a text-based prototype in Java that served as the groundwork for subsequent development
- Developed and implemented UI features for shopping, inventory, and combat functionalities within the application

### **Data Analysis: Analyzing Steam Game Success - Python, R**

- Directed a 3-person team in extracting Steam game data and conducting analyses such as logistic regression and random forest modeling to predict game success on Steam platform
- Leveraged Python and R programming techniques for web scraping, data parsing, EDA, and visualization while emphasizing accessibility
- Identified key factors such as genres, price, and publishers that play a key role in a game's success

### **Spanish to Chinese Machine Translation Model - Python, Machine Learning**

- Worked with a team to develop a natural language translator compatible with English, Spanish, and Chinese using machine learning tools in Python
- Incorporated HuggingFace models to map textual input from source languages to target languages
- Successfully created a translation model with a BLEU score of .255

### **Portfolio - React, Next.js**

- Developed an online portfolio using React and Next.js with Tailwind CSS for styling
- Implemented an emailing system that allows for streamlined communication

## SKILLS & CERTIFICATES

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- **Skills:** Data Analysis, Web Scraping, Data Visualization, Machine Learning, Algorithms, Data Structures
- **Computer:** Java, Python, HTML, CSS, OCaml, Assembly, React, Next.js, JavaScript
- **Data:** Python, R, SQL
- **Software:** Git, Visual Studio Code, RStudio, Overleaf
- **Python Libraries:** pandas, NumPy, Matplotlib, scikit-learn
- **Certificates:** SQL Essential Training, Python Essential Training, Program Management for IT Professionals

## RELEVANT COURSEWORK

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|-----------------------------|---------------------|--------------------------|
| • Computational Linguistics | • Operating Systems | • Linear Algebra         |
| • Intermediate Data Science | • Compilers         | • Multivariable Calculus |

## WORK EXPERIENCE

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### **Library Associate, Vassar College**

*Jan 2021 - Present*

- Distributed and organized hundreds of library books weekly to ensure efficient library organization

### **Crew Member, Chipotle**

*Sep 2019 - June 2021*

- Collaborated within a team at Chipotle to ensure quality customer service by providing versatile support in a fast pace environment