

# MINH PHUC NGUYEN

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## EDUCATION

### VILLANOVA UNIVERSITY

*Bachelor of Science in Computer Science and Statistics,  
Honors Student, GPA: 4.0*

Villanova, PA

May 2026

- Veritas Scholarship, Presidential Scholar Alternate
- Honors Student Advisory Board
- AP Computer Science A: 5; AP Calculus BC: 5
- AI-JAM Online Competition, Silicon Valley in USA 2021: Gold Award

## TECHNICAL EXPERIENCE

### SUMMER RESEARCH

*Research Assistant*

Villanova, PA

May 2023 - Present

- Create a machine-readable dataset for two low-resource African languages: Igbo and Nigerian Pidgin
- Identify Relevant Data Sources such as forums, online newspapers, and online radio.
- Create a web scraper that collect the text data from these sources and store them in a structured format
- Preprocess, clean, and access the quality of the data set

### MATCH RESEARCH PROGRAM

*Research Assistant*

Villanova, PA

Jan 2023 - April 2023

- Gained exposure to various parts of the Natural Language Processing system pipeline.
- Utilized Python and Jupyter Notebook; analyze 58000+ machine-generated versus human-generated sentences from sources like Discussion Forum, Broadcast conversation, News, and Wikipedia
- Suggested improvements to the Abstract Meaning Representation system to make text generation sound more human-like such as understanding the use of capitalization for sarcasm and learning more mathematical expressions.
- Presenting a 12-page Research Report through Overleaf - a popular website for official research formatting

### INTERNATIONAL AI CONVERGENCE CREATIVE OLYMPIC 2021

Hanoi, Vietnam

*Researcher, Designer, Competitor*

June 2021 - Aug 2021

- Awarded Gold in the 2021 AI-JAM Online Competition, Silicon Valley in USA with more than 150 innovations and approximately 500 students participated in worldwide
- Invented, installed and ran a Wifi-controlled remote Trash Collector Device with 4 members. When pressing buttons on the Blynk mobile app, the wifi receiver unit (installed on the device) then receives commands and transfers them to the power control circuit (installed on the device). The circuit then directs the motor engine according to those commands.

## SKILLS & COURSEWORK

- **Programming languages:** Python 3, Javascript, Java, HTML, CSS
- **Tools & Libraries:** VS code, Jupyter Notebook, Eclipse | React.js, NumPy, Pandas, NLTK, BeautifulSoup
- **Coursework:** Analysis of Algorithm, Platform Based Computing, Linear Algebra for Computing, Discrete Structure, Data Structure, Statistic Methods
- **Certificates:** Code Academy: Python 3; Build a website with HTML, CSS, and Github Pages

## PROJECTS

- Film Recommendation System
- Villanova University Calories Tracker
- Web Portfolio

## LEADERSHIP & ACTIVITIES

*Competitor, CS PROGRAMMING TEAM*

Villanova, PA, Aug 2022 - Present

*Committee, SPECIAL OLYMPICS*

Villanova, PA, Aug 2022 - Present

*Competitor, CLUB BADMINTON*

Villanova, PA, Aug 2022 - Present

*President, AMSTRONOMY*

Hanoi, Vietnam, Dec 2019 - June 2022

- Built and managed an astronomy website; authored 200+ articles on various astronomy topics.
- Hosted an online fundamental astronomy course through Zoom, which attracted 150 students aged 8 to 13 from nationwide - the course consists of 6 lessons and lasts for 3 weeks; led a team of 80 members.