

# Nam Pham

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**CAREER OBJECTIVE:** Curious, energetic computer science student skilled in leadership, with a firm background in math, logic, and cross-platform coding. Seeking to leverage solid skills in collaboration, communication, and development as a programmer.

## PROJECTS:

### Hand digit classifier

- Created a java program to classify handwritten digit by using 2-layer, feed forward neural network
- Correctly identify 104 out of 105 handwritten digits of 80 different people with 50 hidden nodes.

### Awari:

- Created an AI-player in 2-players game using Java GUI interface
- With searching depth of 15, the AI-player can be comparable to human player expert level

### King's Nightmare (modified chessboard)

- Created a Java program to find sequences of moves for the knight to capture the king in an any  $n \times m$  chessboard, while avoiding all the obstacles
- Implemented by using either Bread First Search, Depth First Search or A\* Search

## EDUCATION

2018                      **University of Wisconsin-Madison - B.S in Computer Science**  
2016                      **Herkimer College - A.S in Computer Science**

Awards // President's List (Top 10%), Dean's List, Phi Theta Kappa, Honors Programing in Java  
Favorite areas of study: Artificial Intelligence, Algorithms

## PROFESSIONAL EXPERIENCE

- 08.2015 – 05. 2016                      **ACADEMIC SUPPORT CENTER** // Peer Tutor
- Created curriculum, taught Computer Science (C, C++) for 50+ students for 12 hours/week
  - Raised students' grades by a letter grade on average
  - Successfully obtained CRLA tutoring certificate (Tutor Level 1)
  - Spearheaded fundraising program to raise \$5k to organize Thanksgiving for underprivileged children
- 05.2017 – Present                      **VIETNAM HEALTH PROJECT** // Co-Chair of Volunteering
- Lead a team of 8 volunteers; raise fund for an annual trip providing free healthcare services to children
  - Organized hockey concession stands; spearheaded food sales; raised \$10k+ in revenue
- 08.2015 – 05.2016                      **PHI THETA KAPPA** // Vice President of Honors in Action
- Brainstormed and determined subjects for academic research promoting academic excellence
  - Oversaw and provided resources for 10 students in conducting academic research
- 08.2015 – 05.2016                      **HERKIMER CENTER FOR STUDENT LEADERSHIP** // Student Ambassador
- Programmed 8 major campus-wide events such as open house, graduation, for 8000 attendees
  - Assisted ~1000 freshmen in transitioning into campus life; co-organized orientation activities

## SKILLS

Programming languages (): Java (Proficient), C++ (Proficient), C, HTML/CSS, Python, Assembly, Swift  
Skills: Algorithms, Data Structures, Logic, Machine Learning, GIT