Jihyun Ahn

+1 (602) 626-4361   Westgate Building, University Park, PA 16802
jfa5672@psu.edu   https://janice-ahn.github.io/

SKILLS

Technical Skills: Git, GitHub, Linux, Java, JavaScript, Python, CSS, HTML, Quartus, C, MATLAB, Adobe Photoshop, Adobe Premiere Pro, PowerPoint, Excel, Word,

Language: Korean (native), English (fluent), Japanese (limited work capacity)

EDUCATION

B.E., Arizona State University, Tempe, Arizona   August 2019 – April 2021
- Major: Computer Science (Ira A. Fulton Schools of Engineering)
- Award: New American University Scholarship UG 2019 – 2021
- Major Classes: CSE 205 (Object-Oriented Program & Data, Grade: A), MAT 243 (Discrete Math Structures, grade: A+), CSE 230 (Computer Org/Assembly Language Program, Grade: B+), MAT 267 (Calculus for Engineers, Grade: A)
- GPA: 3.98/4.00

B.S., University of Wisconsin, Madison, Wisconsin   September 2021 – May 2023
- Major: Computer Science (College of Letters)
- Major Classes: COMP SCI 400 (Programming 3, Grade: A), COMP SCI 540 (Intro-Artificial Intelligence, Grade: A), COMP SCI 577 (Introduction to Algorithm, Grade: B), COMP SCI 639 (CS Capstone, Grad, Grade: A), COMP SCI 536 (Intro-Prog Langs&Compilers), COMP SCI 537 (Intro to Operating Systems), COMP SCI 539 (Intro-Artificial Neural Ntwrks)
- GPA: 3.77/4.00

Ph.D., Pennsylvania State University, State College, Pennsylvania   August 2023 – Present
- Major: Computer Science (Computer Science and Engineering)
- Research Area: Natural Language Processing (NLP)

RESEARCH EXPERIENCE

Research Assistant, Pennsylvania State University   August 2023 – Present
- Supervised by Prof. Wenpeng Yin.
- conducting intensive research on LLMs for Math Word Problems, aiming to enable more LLMs to effectively and successfully solve mathematical problems

Internship, ADAS Verification Technology Team, Suresoft, South Korea   May, 2022 – July, 2022
- Collected sensor data of ADAS vehicles including Lidar, IMU, GPS, and Camera, and created various testing scenarios and error determination filters for ADAS
- Applied Python and C# to create filters that find the point where ADAS caused the judgment error during driving and left a mark on the timeline
- Presented summarized contents of various papers related to ADAS and ADAS testing every three weeks to team members to help widen their knowledge

KEY PROJECTS

Capstone, Student, Arizona State University   November 2020 – December 2020
- Designed the most appropriate solution and built a circuit to meet the client's needs of effective determination and resolution of errors in microphone and speaker
- Applied Quartus to create the designed circuit for optimized simulation

Capital-One Capstone, Frontend and backend developer, University of Wisconsin Madison   September 2022 – December 2022
- Cooperated with team members twice a week to develop a customer card-recommendation

survey website for Capital-One
  - Applied Nodejs, React, CSS, HTML, and GitHub to create front end codes for the survey website
  - Applied various team management methodologies such as scrum, sprint, and Jira

Hackathon, Front-End developer, University of Wisconsin Madison   February 2022
  - Cooperated with team members for 24 hours to develop a chrome extension which simplifies the process of finding chrome search history for user
  - Applied CSS, HTML, and JavaScript to create user-friendly interface and function for the application

Korean Student Association Website Development, Team leader, Arizona State University October 2020 – March 2021
  - Collaborated with team members twice a week to develop a website for the Korean Student Association
  - Applied CSS, HTML, SQL, Bootstrap, and JavaScript to create frontend commands and backend data processing structures for the website
  - Supported team members by demonstrating building up structures of coding

Project SPYN, Leader, Arizona State University   August 2019 – December 2019
  - Cooperated with team members once a week to create an automated robot vehicle for disabled
  - Applied MATLAB, Excel, Adobe Photoshop, and Clip Studio Paint to create logo and data processing structures for the robot function

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EXTERNAL ACTIVITIES

Artificial Intelligence with You, Leader, Arizona State University   September 2019 – May 2021
  - Hold bi-weekly meetings to discuss Artificial Intelligence adaptation and principles for successful implementation in society
  - Conducted the discussion on basic Artificial Intelligence coding by searching a variety of materials to help members build a framework
  - Motivated members to get used to Artificial Intelligence by providing various event information and activities related to Artificial Intelligence

Korean American Scientists and Engineers Association, University of Wisconsin   August 2021 – May 2022
  - Participated in meetings twice a week for various academic activities including thesis analysis and academic discussion
  - Participated in monthly events to communicate with members for emotional support and cooperated with members to support their academic concerns and challenges

Korean Computer-Science Union, Vice President, University of Wisconsin Madison   September 2022 – May 2023
  - Held monthly meetings to help team projects and improve club members' programming skills
  - Provided Git and GitHub info sessions to members for understanding basic functions that are needed for team projects

Korean Student Association, Arizona State University   August 2019 – May 2021
  - Participated in monthly events for the cooperation and unity of Korean students
  - Supported students' well-being by giving emotional and informative support

Math Instructor, Yongin METIS Mathematics Academy, South Korea   April 2019 – July 2019
  - Provided three lectures a week for two classes to help students cultivate and apply basic skills of algebra and calculus
  - Encouraged students to study passionately by playing course-related activities once a week
  - Voluntarily supported students' mental health by counseling

Teaching Assistance, Yongin Matholic Cram School, South Korea   May 2019 – July 2019
- Assisted Math instructors with their lecture and office work
- Maintained clean and organized study areas to provide students with the best environment to study
- Managed students and worked voluntarily to allow them to study and cooperate with their peers