

SOHYUN PARK

✉ sohyunp3@illinois.edu | ☎ (425) 381-6522 | [in www.linkedin.com/in/sohyunparkk](https://www.linkedin.com/in/sohyunparkk) | [github https://github.com/sohyunp3](https://github.com/sohyunp3)

EDUCATION

University of Illinois at Urbana-Champaign

Aug. 2020 – May. 2024 (Expected)

Bachelor of Science in Computer Science

GPA: 3.87/4.00

Applied Machine Learning; Artificial Intelligence; Data Structures; Algorithms & Models of Comp; Software Design Studio

WORK EXPERIENCE

Google Software Product Sprint Program,

Google

Student Software Engineer

May. 2022 – Aug. 2022

- Designed a Java web application for data sharing between family members for their effective communication
- Developed log-in system, photo gallery, forum, and to-do list utilizing Google cloud storage and data store in a 3-person team
- Received active feedback from Google engineers in a weekly team meeting after a presentation to build a universal web application

Distributed Autonomous Systems Laboratory,

University of Illinois at Urbana-Champaign

Undergraduate Research Assistant

Jan. 2022 – Present

- Integrated crop harvesting and pest detection by designing a soft-arm robot using camera radars and Recurrent Neural Network
- Improved accuracy of object recognition AI by 3% with a grid search hyperparameter tuning technique
- Currently refining the delay in movement when target object is found, writing weekly reports regarding improvement made

Science Gateways Community Institute,

Elizabeth City State University

Software Engineer Intern

Jun. 2021 – Aug. 2021

- Supported medical professionals to better predict future severity of COVID-19
- Visualized COVID-19 recovery rate trends using Flask, with focus on easy interfacing via CSV
- Implemented filtering and adding notes using Unix script to ease search difficulty of persons in administration system

PROJECTS

HackIllinois 2022: Analyzing & Visualizing Public Opinions on Russian-Ukraine War

Feb. 2022

- Identified controversy on the war by retrieving Twitter hashtags through Twitter API
- Performed a sentimental analysis using team's machine learning model on the filtered Twitter posts related to the team's topic
- Developed an interactive website and visualized real time stance of Twitter public opinions in a graph for analysis of the trend
- Received and analyzed user input of thoughts on the war via team's learning model and presented tweets of the similar stance

OpenFlights: Determining Cost Efficiency Between Two Airports

Oct. 2021 – Dec. 2021

- Filled a gap in information about the flights considering cost efficiency provided by [OpenFlight](#)
- Created a new flight search algorithm that finds the best series of connecting flights based on cost and distance traveled
- Implemented Dijkstra's shortest path algorithm and BFS in C++ to allow faster searching
- Visualized a directed graph that incorporated the graph searching algorithm to determine flights with cost efficiency

Computer Science Course Model

Sep. 2020 – Dec. 2020

- Streamlined given feedback to UIUC CS courses via Android app that users could type and search CS courses and rate them
- Interfaced with the school database through JSON file and deserialized it to recover to the original objects of summary
- Designed UI/UX of the app with HTML and CSS to increase readability and performed user testing to receive active feedback
- Established a database with MySQL to store user rates towards the courses and user comments

LEADERSHIP & ACTIVITIES

Coding Club "Codable" at UIUC,

Champaign, Illinois

Vice President

Aug. 2020 – Present

- Created a semester-long coursework that leverages members' comprehension in Python that explores important topics including dynamic programming and parallel programming
- Collected image data by web scraping and implemented image classification using the TensorFlow package
- Presented and code reviewed regarding the progress the team had made each week at the general meeting

SKILLS & ABILITIES

Programming: Python, Java, C++, HTML, CSS, JavaScript, jQuery, jest, MIPS assembly language

Tool/Libraries: MySQL, Pandas, NumPy, Matplotlib, Bootstrap, React, Django, Flask, JUnit, Unittest, Android Development, Git