

Soohyuck (Mike) Cho

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RESEARCH INTEREST

Algorithms, Mathematical Computing, Artificial Intelligence (NLP), Visualization

EDUCATION

University of Illinois - Urbana-Champaign

Urbana, IL

B.S. IN MATHEMATICS AND COMPUTER SCIENCE

Aug. 2017 - Dec. 2021

- GPA: 3.91 / 4.00
- Dean's List - SP 18
- James Scholar Honors Program - FA 17

University of Wisconsin - Oshkosh

Oshkosh, WI

B.S. IN PHYSICS

Aug. 2015 - May. 2017

- Transfer GPA: 4.00 / 4.00
- Dean's List - FA 15, SP 16, FA 16, SP 17

EXPERIENCE

Rescon AI

JHU @ Baltimore, MD

INCOMING PRODUCT DEVELOPER INTERN

Starting Jun. 2021 -

Narcotics Division, Supreme Prosecutors' Office

Seoul, S.Korea

DATA MANAGER

Jan. 2019 - Oct. 2020

- Managed numerical data (dates, locations, costs, amounts, etc.), on illegally trafficked drugs in Korea and categorized it in terms of "retailed", "distributed", "exported", etc.
- Assisted visiting foreign narcotics liaisons in the 29th ADLOMICO (Anti-Drug Liaison Officials' Meeting for International Cooperation) and KOICA (Korea International Cooperation Agency) joint events.
- Translated various drug-related lab reports and publications including the UNODC's World Drug Report 2019 and 2020.

RESEARCH

Living Dictionary

Urbana, IL

ADVISED BY KEVIN C.C. CHANG (UIUC)

May. 2021 -

- Recently Started

NLP in Computer Networks

Urbana, IL

ADVISED BY MATTHEW CAESAR (UIUC)

May. 2021 -

- Recently Started

PROJECT

Visualization of Discriminatory Behavior Across the U.S.

Urbana, IL

HACK ILLINOIS 2021

Apr. 2021

- Led a team of six to research weekly occurrences of racially-motivated crimes across the US.
- Constructed a model using Gated Recurrent Units (GRU) and created a relevant interactive dashboard to display the predicted incidents vs the recorded incidents.

Enhancing Minority Voice Recognition

Urbana, IL

2021 ILLINI DATATHON

Feb. 2021

- Led a team of four to investigate ways of enhancing voice recognition for minorities.
- Researched why modern voice assistants are biased against some ethnic minorities.
- Prototyped a CNN-based model through MFCC matrices, which was created from voice files of diverse ethnicity.
- Proposed the lack of variety in datasets as the primary reason why many modern voice assistants fail to support minorities.

Score Analyzer

FULL-STACK DEVELOPER

- Led a team of three to devise auto-grading model for Korean CSAT.
- Incorporated polynomial interpolation to forecast exam scores based on previous performances.
- Categorized problems into groups and prototyped practice problem suggestive algorithm.

Seoul, Korea

Feb. 2019 - Sep. 2020

Numerical Methods in Real World Applications

COURSE DEVELOPER

- Generated creative problem sets for incoming Numerical Methods (CS 357) students.
- Extrapolated topics that students often struggle in and found ways to guide them through a step-by-step approach.

Urbana, IL

Aug. 2018 - Dec. 2018

HONORS & AWARDS

2021 **3rd Place**, Voice Recognition and AI Category, Illini Datathon 2021

Urbana, IL

2015 **1st Place**, UWO Undergraduate Math Competition

Oshkosh, WI

EXTRACURRICULAR ACTIVITY

CODABLE Algorithm Team

TEAM LEADER & CORE MEMBER

- Lead weekly meetings and compared each solution to find the most optimal solution to a given problem.
- Opened study sessions to prepare frequent coding interview questions.

Urbana, IL

Jan. 2021 - present

KITE (Korean International Transfer Entrance) HR Team

TEAM LEADER & CORE MEMBER

- Lead weekly meetings to enhance work efficiency of all teams and share various ideas on overall organization managements.
- Opened regular mentoring workshops for all members to share school/career tips.
- Managed RSO fundraising and gained \$400 net revenue.
- Prepared organized interview schedules and performed interviews during recruitment season.

Urbana, IL

Aug. 2017 - present

Center for Academic Resources

HEAD TUTOR & PROGRAM SUPERVISOR

- Gained Expertise on efficient teaching techniques and enhanced student's ability to understand the material.
- Received a review score of 4.7 / 5 and positive comments from total of 25 students.
- Conducted 1 on 1 meeting with each students to diagnose the problems and struggles the students are having and gave specific solution on how to properly study the subject.
- Supervised other tutors and inculcated them on how to give an easily understandable explanation to their students.

Oshkosh, WI

Aug. 2016 - May. 2017

SKILLS

Quantitative	artificial intelligence, machine learning, visualization, numerical analysis, algorithms, proof-based mathematics
Qualitative	critical thinking, problem solving, research, communication, planning
Programming	Python, JAVA, C/C++, LaTeX, React, JavaScript, HTML5, CSS, MySQL, Verilog, Git
Languages	Korean (native), English (fluent), Japanese (intermediate)