

Kevin Lee

West Lafayette, IN

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EDUCATION

Purdue University, College of Science

Aug. 2020 - May 2023

Master of Science in Computer Science

West Lafayette, IN

Major GPA: 3.2

Ohio State University, College of Engineering

Aug. 2014 - May 2020

Bachelor of Science in Computer Science and Engineering

Columbus, OH

Overall GPA: 3.38, Major GPA: 3.42

PROFESSIONAL EXPERIENCE

Purdue University

Aug. 2020 - May 2023

Department of Computer Science

West Lafayette, IN

Graduate Teaching Assistant

- Assisted professor in a Software Development in C class with over 400 students.
- Designed homework and exam problems with the instruction team.
- Held lab sessions, office hours, and virtual help sessions to assist students who needed help.

The Ohio State University, Wexner Medical Center

May 2019 - May 2020

Department of Obstetrics and Gynecology

Columbus, OH

Student Research Assistant

- Participated in Virtual Patient research, helping medical students to train for doctor-to-patient conversations.
- Updated and maintained Speech to Text and Text to Speech components of Virtual Patient applications using Unity, C#, and Java.
- Gained experience collaborating with a group of professionals from the medical field & natural language processing field.

The Ohio State University

Jan. 2019 - May 2019

Department of Computer Science and Engineering

Columbus, OH

Undergraduate Grader

- Assisted professor in a Software Development Java class with 42 students.
- Explained and clarified questions students had during office hours and closed lab.
- Graded projects and homework; Successfully balanced student workload with teaching workload.

PUBLICATIONS

Artificial intelligence in virtual standardized patients: Combining natural language understanding and rule based dialogue management to improve conversational fidelity.

Maicher, K. R., Stiff, A., Scholl, M., White, M., Fosler-Lussier, E., Schuler, W., Lee, K., & Danforth, D. R. et al. (2022). Medical teacher, 1–7. Advance online publication.

<https://doi.org/10.1080/0142159X.2022.2130216>

PROJECTS

Virtual Patient Project

May 2019 - May 2020

Participated in Virtual Patient research, helping OSU medical students to train for doctor-to-patient conversations. The program was built using Unity 3D, Speech to Text, Neural Networks (CNN, RNN), and Text to Speech. Updated and maintained Speech to Text and Text to Speech components of Virtual Patient applications using Unity, C#, and Java.

<https://accad.osu.edu/research-gallery/virtual-patient-project>

Backdoor Attack on Language Model Code Generators

Feb. 2023 - May 2023

Participated in a project, which aimed to investigate whether inserting trigger words into these models could lead to the generation of malicious code, potentially resulting in a backdoor attack on the user's computer. Performed writing web scraping code, collecting train set data for GPT-2 code generator model, and implemented trigger insertion code using Python.

<https://github.com/kevindclee/CS577-Final-Project-Backdoor-Attack-on-Language-Model-Code-Generators>

INVOLVEMENT

Google, Machine Learning Bootcamp

Sep. 2023 - Dec. 2023

Member

Seoul, South Korea

- Acquired skills in deep learning, computer vision, and natural language processing.
- Gained knowledge of TensorFlow and completed Kaggle competition with top 7%.
- Gained hands-on experience in ResNets, MobileNet, YOLO, U-Net, and Transformer Network.

En-core, Playdata Bootcamp

May 2022 - Dec. 2022

Member

Seoul, South Korea

- Acquired skills in front end & back end development, and artificial intelligence applications.
- Gained knowledge of JavaScript, React, Next.js, Spring Boot, MySQL, and Python.
- Gained leadership experience through leading teams and project presentations.

QUALIFICATIONS & SKILLS

- Proficient with Java, C, Python, JavaScript, React, Next.js, Spring Boot, and MySQL.
- Bilingual: Korean (fluent), English (fluent)

HONORS & AWARDS

Green Engineering Scholars Program

Aug. 2014 - May 2016

The Ohio State University Dean's List (>3.5 GPA)

AU15, AU18, SP20