

Kelly Lee

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Education

Cornell University, College of Arts & Sciences

GPA: **3.9**

Bachelor of Arts in Computer Science, 2023

Ithaca, NY

Coursework: Object Oriented Programming and Data Structures, Discrete Mathematics, Functional Programming and Data Structure, Computer Vision, Computer System Organization and Programming, Introduction to Databases

Experiences

IBM

Remote

Front-end Developer Intern

Summer, 2022

- Migrated IBM Marketplace's self-service checkout page built with Angular and Typescript to the latest framework (Angular 14) and implemented icons and footer components from upgraded packages.
- Eliminated over 400 security vulnerabilities and enhanced end to end testing expanding test coverage.

IBM Accelerate Program

Remote

Software Track Participant

June 2021-July 2021

- One out of 300 students selected to participate in an 8-week learning program delivered by IBM professionals
- Attended weekly sessions on foundational skills and technical topics covering front-end and back-end technology
- Worked on lab assignments with 5 teammates and completed individual assessments using JavaScript and CSS

Women in Computing at Cornell

Ithaca, NY

Member & Outreach Volunteer

February 2021-Present

- Assisted 90 min. weekly computer science workshops on Python for 40 middle schoolers
- Answered questions on lab assignments that focus on fundamental programming concepts such as variables, loops, and arrays

Projects

GUI Game Development

September 2020-December 2020

- Independently developed a GUI application that is a clone of Frogger game using Python
- Organized code based on model-view-controller pattern and created an animation using coroutines that interacts with user key press

Functional Game Development

January 2022-May 2022

- Created game 'Odyssey' from design to development with three teammates using functional programming language OCaml. Implemented key and mouse inputs from user, adjustable difficulty levels, an AI obstacle, leaderboard, and utilized library 'raylib' to feature graphics.
- Planned the overall design of the game and illustrated the graphics, in addition to implementing collision detection and item features.

AI Chatbot Service

September 2022-December 2022

- Developed an artificial intelligence chatbot service 'Cornbot' with two teammates using a Feed Forward Neural Network and 'SentenceTransformers' library to create word embeddings.
- Training, validation, and test sets were manually created in json format accounting for small talk and Cornell related questions regarding academic calendar and campus information.

Skills

Computer Languages: Python, Java, OCaml, C, JavaScript, TypeScript, Html, CSS, SQL

Language Skills: Fluent Korean, Beginner Spanish