Jihun Doh

805-750-5919 | dohj0109@seas.upenn.edu | Github | Website | AWS Certification

EDUCATION

University of Pennsylvania | Philadelphia, USA   May 2026 (expected graduation)

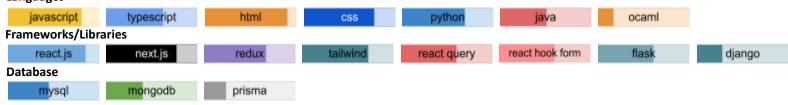*Major:* BSE in Computer Science (Concentration in Artificial Intelligence)

Cumulative GPA: 3.95/4.00

Relevant Coursework: Software Design and Engineering; Database and Information Systems; Introduction to Algorithms; Introduction to Computer Systems; Data Structures and Algorithms; Automata, Computability, and Complexity

TECHNICAL SKILLS

Languages

javascript · typescript · html · css · python · java · ocaml

Frameworks/Libraries

react.js · next.js · redux · tailwind · react query · react hook form · flask · django

Database

mysql · mongodb · prisma

RELEVANT EXPERIENCE

Soundable Health, *Software Engineer Intern* | Seoul, South Korea   March 2024 - June 2024
- Built and launched the web trial version of proudP, a men's prostate health monitoring app that helps record and analyze urine sounds with AI
- Improved the speed of the existing path-finding algorithms by an average of 90 seconds, efficiently detecting all possible paths and their intersections of geospatial maps using morphological image processing and graph traversal methods
- Identified and fixed bugs within the existing patient-management dashboard, such as migrating important security data from browser storage to server side, minifying CSS to enhance the speed of mass-printing patient data, and adding pagination to patient list to improve the overall performance

ShareIT, *Software Engineer Intern* | Lisbon, Portugal (remote)   June 2021
- Developed a react-based internal website for the HR team that allows for more efficient management of employee data, such as leave days and payment details
- Oversaw the project as a team lead by delegating tasks to the team members, merging individual works before each sprint meeting, and presenting the features to the manager

PROJECTS

Penn Free Food Exchange   Oct 2023 - Feb 2024
- Reworked the existing codebase for a website that lets users share leftover food on campus by posting a listing with a pin on the map, as well as other details like a caption and an image
- Implemented a notification system that sends text messages to users when new listings are posted

String Search Algorithm Visualizer   Jan 2024
- Created a website that helps visualize popular string-search algorithms, including Knuth-Morris-Pratt (KMP) and Rabin-Karp
- Guided enhanced understanding of complex algorithms by animating the progress of each algorithm and displaying how the text and pattern characters are compared at each iteration

Locus   Feb 2022 - May 2022
- Directed the frontend portion of a full-stack website where clubs at the University of Pennsylvania can register their clubs, add members, and manage different tasks amongst the club members
- Delivered a well-tested codebase by writing a comprehensive test suite capturing various frontend testing strategies, such as unit tests and end-to-end tests

JDTodo   May 2023 - Sep 2023
- Developed a project management website that enables users to create different projects, each with its own todo list of tasks
- Fostered well-scalable codebase by focusing on popular programming architectures such as MVC, DDD, and SOLID

OTHER EXPERIENCE

University of Pennsylvania, *Teaching Assistant, Data Structures and Algorithms* | Philadelphia, USA   Jan 2022 - Apr 2022
- Facilitated accessible learning environment by teaching a recitation, holding office hours, grading student work and providing feedback, leading exam review sessions, and answering questions on Piazza, an online Q&A platform