

Lingzi Zhang

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EDUCATION

University of Pennsylvania, School of Engineering & Applied Science, Philadelphia, PA

May 2025

Bachelor of Science in Engineering in Computer Science, Cumulative GPA: 3.93

The Hockaday School, Dallas, TX

May 2021

Cumulative GPA: 4.07/4.3, Graduated Cum Laude, Headmistress' Honor Roll

TECHNICAL SKILLS

Fluent: Java, Javascript, React, Node.js; **Proficient:** Git, Express.js, OCaml, HTML/CSS, Redux, MongoDB, jQuery

RELEVANT COURSEWORK

Computer Science: Programming Languages and Techniques I; Mathematical Foundations of Computer Science; *Fall 22: Data Structures and Algorithms; Automata, Computability, and Complexity; Scalable and Cloud Computing

PROJECTS

PennApps XXIII Hackathon

September 2022

- Constructed a plant identification app with sentiment analysis and web scraping under 36 hours in a team of 3
- Styled the app with Bootstrap and extracted data from backend calls to Pl@ntNet's plant identification API, Google Cloud's Natural Language API, and WikiJS library for display on frontend via Axios
- Won the Best Use of Web Automation/non-REST API Data Sources and gained experience working with APIs

Q&A Platform

July 2022

- Built backend on Node.js with Express middlewares such as Cookie-Session and user authentication middlewares
- Incorporated MongoDB and created user and question schemas and models with Mongoose; handled requests about user accounts and questions posted with Express routers and Mongoose methods
- Connected the frontend and backend with Axios and implemented routes using React Router; styled with Tailwind
- Gained hands-on experience with JavaScript backend and full stack development and working with a database

Dynamic Blog Site

June 2022

- Modeled blog posts using an array of post objects in JavaScript and styled web page with Bootstrap
- Experimented with React-Redux to more efficiently manage states of the intro image and text display and post titles, images, and descriptions with actions and reducers for creating, editing, deleting, and saving posts
- Learned about large-scale state management using redux instead of passing props with React

Snake Game

April 2022

- Applied Java data structures such as linked lists and concepts such as inheritance and JUnit testing for game components involving movement of snake and snake-fruit collision effects
- Implemented a game board storage and retrieval functionality with File I/O where the player can save current game into CSV file and load last saved game; worked with Java Swing for game visualization and gained experience in event handling and game layout

WORK EXPERIENCE

College House Information Center Operation Assistant, University of Pennsylvania

November 2021 - May 2021

- Oversaw the front desk area by answering phones, responding to emails, greeting residents, guests, and vendors
- Assisted residents with issuing keys and access utilizing established key control policies
- Developed customer service and communication skills via assisting residents and communicating with guards

VOLUNTEERING EXPERIENCES

Math Tutor, Volunteer with Intellichoice

September 2018 - May 2021

- Instructed and mentored weekly 1-5 students in grades K-10 struggling with math at school

EXTRACURRICULAR ACTIVITIES

Penn Women in Computer Science, Member

September 2021 - Present

- Participate in career development workshops and social events to meet other women studying CS

Penn Society of Women Engineers, Member

September 2021 - Present

Penn Symphony Orchestra, Member

September 2021 - Present