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, OCaml, HTML/CSS, Express.js, Redux, Mongoose, 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
Personal Website   **August 2022**
- Constructed web-based portfolio with React and HTML/CSS to centralize projects with reusable components
- Experimented with Tailwind for design and became proficient in setting up breakpoints to ensure responsiveness

Q&A Platform   **July 2022**
- Built backend on Node.js with Express middlewares such as the Cookie-Session and user login/logout authentication middlewares and linked to MongoDB to store user/post information
- Created user and question schemas with Mongoose; handled requests about user accounts and questions posted with Express routers and Mongoose methods
- Connected the frontend and backend with Axios requests and implemented different routes for login, signup, and home pages using React Router; applied style with TailwindCSS and handled events with React
- 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 progress into a 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

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**