Lingzi(Susan) 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, Minor in Mathematics, Cumulative GPA: 3.94 (Dean's List)

TECHNICAL SKILLS
Java, JavaScript, TypeScript, HTML/CSS, Git, React.js, Redux, Node.js, Express.js, MongoDB, AWS DynamoDB, Spark

RELEVANT COURSEWORK
Computer Science: Mathematical Foundations of Computer Science; Data Structures and Algorithms; Scalable and Cloud Computing; *Spring 23: Intro to Computer Systems, Advanced Algorithms, Python Programming
Mathematics/Statistics: Linear Algebra and Differential Equations, Probability, *Spring 23: Advanced Linear Algebra

EXPERIENCES
Frontend Web Developer*, Penn Labs*   **September 2022 - Present**
- Created a course checkout page with React and the Penn courses API where users can search for courses, view course description and ratings, add/remove a course, rank their preferences, and check out courses
- Developed new course search filters using React and Redux on a team of 8 members, including designers and other developers for Penn Course Plan, a schedule planning site used by thousands of students on campus

Software Developer*, Hack4Impact*   **September 2022 - Present**
- Work in collaboration with 9 other developers on projects for non-profits, such as a resource tree for the Penn Abuse and Sexual Assault Prevention group to better centralize resources available on campus
- Implemented a rich text editor page for admins of the website to edit resource names and content and accumulated experience in full stack tools such as MongoDB, Mongoose, Express, React, and TypeScript

PROJECTS
Pennbook   **November 2022 - December 2022**
- Created a facebook miniature in a group of 4 with features such as posting, commenting, user registration and information update, live chat, and news recommendations based on the user's interests
- Gained experience with AWS DynamoDB and EC2, Node, React, and jQuery by implementing post, comment, and dynamic update features and further developed communication skills in a collaborative team setting

Graph Problems   **November 2022**
- Implemented data structures such as a resizable deque and a binary min heap from scratch using Java arrays and solved problems such as solving a maze and finding path with greatest bandwidth using various graph algorithms
- Rigorously tested correctness of data structures and algorithms using JUnit testing and gained experience with problem solving, object oriented programming, and code implementation design

PennApps XXIII Hackathon   **September 2022**
- Constructed a plant identification app with sentiment analysis and web scraping under 36 hours in a team of 3
- Developed frontend features and extracted data from calls to Pl@ntNet and Google Cloud Natural Language APIs
- Won the Best Use of Web Automation/non-REST API Data Sources and gained experience working with APIs

Q&A Platform   **July 2022**
- Built a full stack Q&A web app that allows for user authentication, Q&A, and response auto-refreshing
- Gained hands-on experience with JavaScript backend, full stack development, and MongoDB

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**