

# Su Zhang

## Software Engineer

### CONTACT ME

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### EDUCATION

#### Diploma of Information Technology

Coder Academy  
2022

#### Bachelor of Architecture

Harbin Institute of Technology  
2010 - 2013

#### Environmental Art Design

Harbin Institute of Technology  
2006 - 2009

### STRENGTHS

- Web App Development
- Backend Development
- Interface Designing
- Problem solving
- Fluent in Mandarin

### SKILLS

- **Languages:** HTML, CSS, JavaScript, TypeScript, Ruby, Nodejs, Go, Python.
- **Frameworks:** React, Ruby on Rails, gRPC, rest, Jest
- **Software:** VSCode, Figma, SourceTree, AutoCAD, Adobe Illustrator, Adobe Photoshop
- **Databases :** PostgreSQL, MongoDB
- **Tools :** Buildkite, Backstage, Kubernetes, Git, GitHub, Trello, Heroku, Firebase, Agile Board, Postman, XMind, Balsamiq, draw.io

### SUMMARY

I'm a full-stack Software Engineer specialising in modern technologies such as React, TypeScript, Node.js, gRPC, Golang, and Temporal. With experience working on advanced projects involving the Boston Dynamics Spot Robot, I have developed an understanding of robotics, autonomous navigation, and data collection. My design thinking and problem-solving skills originally honed through a background in Buildings Architecture, now allow me to apply these technologies with a fresh perspective to solve complex problems in IT.

### WORK EXPERIENCE

#### Full stack Software Engineer

##### SafetyCulture Intern

2022-2023

- Implemented a Data governance workflow feature end-to-end using Figma, React, TypeScript, gRPC, Golang, and Temporal.
- Developed a solution using a Boston Dynamics' Spot robot to autonomously navigate and collect IR temperature data using Python.
- Delivered comprehensive presentations of my work to an engineering department of 150+ engineers.
- Collaborated across multiple engineering teams to implement a comprehensive solution for managing sensitive customer data in AWS, ensuring full compliance with data governance requests.

#### Graphic designer

##### Consultant

2018-2022

- Communicated with clients and consumers to develop designs to requirements
- Collaborated with other designers and printing companies to create high-quality products and websites

#### Buildings Architect

2011-2018

##### Architectural Design and Research Institute of Harbin University of Science and Technology

- Created and designed drawings that met client requirements and conformed to design specifications
- Communicated with clients to determine planning project requirements and provided updates accordingly
- Coordinated the design team to ensure aspects such as structural support, water, and electricity arrangements were coordinated throughout the project

### ACHIEVEMENTS

#### Boston Dynamics Spot Hackathon

Created a solution for SafetyCulture using the Boston Dynamics Spot Robot that involved programming Spot to independently navigate paths, capture images and measure temperature using an infrared sensor. Utilised the collected data to conduct a comprehensive inspection, and integrated this with the SafetyCulture app. Can be leveraged by customers for more efficient and accurate inspections. Thereby automating tasks that were previously time-consuming, dangerous, and error-prone.

#### Tech Talk - Boston Dynamics and Temporal Workflow

Hosted a technical talk on two of my recent projects. A Data Governance Workflow solution, demonstrating the advanced technologies of Temporal Workflow and Boston Dynamics' Spot Robot capturing IR temperature data, to a large audience of over 150+ skilled engineers.

## Hackathon - React App

Collaborated with a 4-person team to build a ReactJS app for searching emojis in just 1.5 days. Features included search, click-to-copy, notifications, dark mode, and team photos. Utilised GitHub and deployed the app on Netlify.

## KEY PROJECTS

### Hackathon - Boston Dynamics Spot

- Created an innovative solution during the Boston Dynamics Spot Hackathon at SafetyCulture that involved programming Spot to independently navigate a predetermined path, capture high-quality photos, and measure temperature using an infrared sensor.
- Utilised the data collected by Spot to conduct a comprehensive inspection through the SafetyCulture app that provided valuable insights into safety and maintenance requirements, thereby automating tasks that were previously time-consuming, dangerous, and error-prone.
- Leveraged API development skills to successfully upload all media to an inspection device that SafetyCulture customers can use for more efficient and accurate inspections, enabling seamless access to valuable findings.

### Temporal - data governance workflow

- Implemented a Data Governance feature utilising advanced technologies such as Figma, React, TypeScript, gRPC, Go, and Temporal Workflow.
- Developed an intuitive and user-friendly interface for managing data using Figma, React, and TypeScript.
- Utilised gRPC and Go to create a fast and reliable backend for the feature.
- Integrated Temporal Workflow to efficiently manage complex workflows and ensure the smooth running of the feature.
- Presented the Data Governance feature to a large audience of over 150 engineers within the engineering department.
- Demonstrated exceptional technical expertise and dedication in the successful implementation of the feature.

### MERN stack - Chat App

- Spearheaded the development of a feature-rich MERN stack chat application in collaboration with a team of two.
- Incorporated advanced features such as user authentication, group creation and chat rooms, chat history viewing, adding friends, dark mode, and custom Halloween theme to provide an enhanced user experience.
- Employed Express for advanced backend features and deployed the application on AWS EC2 instances.
- Leveraged Firebase authentication and MongoDB Atlas for efficient database management.
- Utilised React for front-end development and deployed on Netlify for ease of use.
- Ensured the chat software has scalability and provides a solid foundation for future feature development.

### Hackathon - React Emoji Search App

- Built an app to search emojis in a four-person team in one and a half days
- Used ReactJS, JavaScript, CSS and HTML including a YouTube presentation and documentation
- Includes features such as search, click-to-copy emoji, pop-up toast notifications, dark mode and team photos
- Collaboration with team using GitHub fork workflow and PRs
- Deployed on Netlify
- **App website:** <https://emojis.codergirlsu.dev/>
- **YouTube presentation:** <https://www.youtube.com/watch?v=tTJmHlxH-fo>
- **GitHub:** <https://github.com/coderGirlSu/coder-academy-hackathon-team-why-not>

### Ruby on Rails - Marketplace

- Created a two-sided marketplace with the following features:
  - File upload capabilities, user authentication, messaging, search, sorting and filtering capabilities
- Developed using Ruby on Rails, and PostgreSQL, and deployed to Heroku
- **Github:** [https://github.com/coderGirlSu/SuZhang\\_T2A2](https://github.com/coderGirlSu/SuZhang_T2A2)

### Portfolio website

- Created a portfolio website to provide information about me, my skills, interests, and professional knowledge and a showcase of my work
- Developed using HTML and CSS
- **App website:** <https://codergirlsu.github.io/src/>

## VOLUNTEERING

### Australian Red Cross

- Sale of new and donated clothes, accessories and household items to raise funds to help those in need. Categorized donations and organised products for sale. Provide customer service and process sales