

Su Zhang

Software Engineer

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EDUCATION

Computer Science

Stanford Online
2023

Diploma of Information Technology

Coder Academy
2022

Bachelor of Architecture

Harbin Institute of Technology
2010 - 2013

STRENGTHS

- Full Stack Web App Development
- Backend Development
- Self Learning
- Problem solving
- AWS fundamental services
- Fluent in Mandarin

SKILLS

- **Languages:** JavaScript, TypeScript, Golang, Ruby, Python, Node.js, HTML, CSS.
- **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 am a full-stack software engineer with one year of experience. As a certified AWS practitioner with a firm grasp of Computer Science, I am passionate about building things and solving problems, especially using generative AI technologies such as LLMs and diffusion models.

WORK EXPERIENCE

Full Stack Software Engineer Intern

2022-2023

SafetyCulture

- Developed full-stack team projects in a microservice architecture that involved many different technologies, such as React, Typescript, Golang and Temporal workflow.
- Worked on a project to integrate the Boston Dynamics Spot robot image and temperature data sensors with the SafetyCulture application.

Robotics Software Engineer

2023

SafetyCulture - Boston Dynamics Spot

- Created an innovative solution using the Boston Dynamics Spot robot at SafetyCulture that involved robotics programming to independently navigate a predetermined path, capturing high-quality photos and measuring temperature using infrared sensors.
- Utilised the data collected to conduct comprehensive inspections, integrating with the SafetyCulture platform to provide valuable insights into safety and maintenance requirements, thereby automating tasks that were previously time-consuming, dangerous, and error-prone.
- Leveraged API development skills to upload media to inspection devices used by SafetyCulture customers for more efficient and accurate inspections, enabling seamless access to valuable findings.

Full Stack Software Engineer

2022

SafetyCulture - Temporal Workflow Engine

- Implemented Data Governance functionality utilising technologies and tools, including 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.

Architect

2011-2018

Harbin University of Science and Technology

- Drew and designed architectural construction plans and architectural renderings that met client requirements and building regulations using AutoCAD, 3ds Max and SketchUp.

ACHIEVEMENTS

AWS Cloud Practitioner Certificate

2023

Credentials:

https://www.credly.com/badges/4519b7fc-ecbe-419c-8d2c-948bd3cafd34/public_url

- Successfully obtained the AWS Cloud Practitioner certification in 2023, demonstrating a strong foundation in cloud computing principles and AWS services
- Proficient in core AWS cloud concepts, including cloud architecture, security, and billing, along with a deep understanding of fundamental AWS services and their use cases
- Skilled in managing AWS cloud infrastructure, including virtual servers (EC2), storage (S3), and databases (RDS), ensuring optimal performance and cost-efficiency
- Well-versed in cloud best practices, enabling the design and implementation of scalable, reliable, and secure AWS solutions that meet business objectives and compliance requirements.

PERSONAL PROJECTS

OpenAI - Personal writing assistant tool

- Built a personal assistant tool using Golang that leverages AI technology from OpenAI's APIs and integrates into MacOS using Apple shortcuts.
- Features include translating text, enhancing writing, and grammar-checking using the GPT-4 model.
- **GitHub:** <https://github.com/coderGirlSu/translate-tool>

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.
- **App website:** <https://tiktalk.codergirlsu.dev/>
- **GitHub:** <https://github.com/coderGirlSu/TikTalk-server>

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>

React - Fruit Picking Game

- Built a fruit-picking game using ReactJS, CSS, HTML and JavaScript
- Includes features such as calculating the score, timer, sound effects
- **App website:** <https://fruit.codergirlsu.dev/>

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