

Yizhi Chen

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EDUCATION

Georgia Institute of Technology <i>M.S : Computer Science GPA 4.0</i>	Atlanta, GA, U.S. <i>01/2025 - 08/2026</i>
Trine University <i>M.S : Information Science GPA 3.9</i>	Allen Park, MI, U.S. <i>06/2022 - 06/2023</i>
China University of Petroleum <i>B.S : Software Engineering — Horn Scholarship Award</i>	<i>09/2016 - 06/2020</i>

TECHNICAL SKILLS

Frontend: TypeScript, React, Next.js, Vue, React Native, JavaScript (ES6+), Jotai, Tailwind CSS, D3.js, Webpack, Vite
Backend: Python (FastAPI, Flask), Go (Gin, Go-zero), Node.js (Koa2)
Databases / Middleware: MySQL, PostgreSQL, MongoDB, Redis, Kafka, Elasticsearch, Databricks
DevOps & Cloud: AWS, Azure, Docker, K8s, Argo, Jenkins, CI/CD, Serverless
AI / ML Ops: LLM Integration (OpenAI API), LangChain, Text-to-SQL, Streamlit

EXPERIENCE

Software Engineer Intern <i>Nvidia @Cloud Cost Management Team</i>	05/2025 - Current <i>Santa Clara, CA, U.S.</i>
<ul style="list-style-type: none">Built a full-stack Cloud Cost Management(CCM) portal that automated financial data aggregation and analysis across all company organizations, cutting the finance reporting cycle from weeks to days.Engineered a scalable backend with Python (FastAPI) and PostgreSQL, Elasticsearch, deployed on Kubernetes. Reduced average response time for frequent API requests by over 30% through Redis caching and Elasticsearch indexing.Developed a React/TypeScript frontend from scratch, leveraging React-Query and Jotai for optimized data fetching and complex state management.Designed and implemented a robust RBAC system using JWT and Azure AD, successfully passing all internal security audits and protecting sensitive financial data.Integrated a Dify-based AI chatbot with Text-to-SQL capabilities, successfully automating over 500 user queries monthly and reducing manual support tickets by 15%.	
Software Engineer Intern <i>EZdealer</i>	02/2023 - 05/2023 <i>Champaign, IL, U.S.</i>
<ul style="list-style-type: none">Based on Vue, Webpack and Gulp, developed the vehicle detail page, inspection page, and photo gallery features supported PC and mobile version of website product.Enhanced front-end projects through efficient coding practices, incorporating Tree-shaking, Module Federation, and CSS optimization. Improved cache-update mechanisms by adding hash suffixes to output files.Developed and maintained the internal DMS(Dealer Manage System), resolving 20+ legacy bugs and enhancing system stability to reduce support overhead.	
Software Engineer(Freelancer) <i>Tammira</i>	07/2021 - 12/2021 <i>Remote, U.S.</i>
<ul style="list-style-type: none">Developed the official website utilizing React (with Redux) to support both desktop and mobile versions.Implemented email templates using SendGrid and responsive CSS be compatible with multiple email app clients, resulting in a 10% increase in users by leveraging email marketing campaigns.Developed and maintained the TAMMIRA App and the backend service, utilizing React-Native, Node.js, Express, AWS, MongoDB, adding features like shop and shopping cart to enhance functionality.	
Software Engineer <i>Xiaoice.AI @Could Platform Team(AI Company split from Microsoft)</i>	06/2021 - 07/2022 <i>BeiJing, China</i>
<ul style="list-style-type: none">Developed webapps for platforms including Wechat, QQ, HuaWei, Xiaomi, Oppo, and Vivo, with a significant user base of over 10k+ daily active users and achieving a position among the TOP 100 in the Apple Store.Using D3.js implement data visualization features about AI virtual humans, like AI identification data visualization and the internal AI relationship graph.Collaborated with the AI team to develop a monitoring tool to analyze the business data set. Technologies used: Python(Flask), Elastic SearchAzure(Blob Storage, Virtual Machines, AI&ML service), React, MongoDB.Refactored the existing AI chatting projects, migrating from Vue2 to Vue3, transitioning from Multrepos to a Monorepo with pnpm, and upgrading the build tools from Webpack2 to Webpack4, resolving compile issues by developing and publishing custom Webpack plugins and loaders. Achieved a 30% reduction in the project size, resulting in improved packaging speed and development experience.	

- Launched a **Vue and React** components libraries using Webpack, accompanied by comprehensive documentation written in **Vue-press and Storybook** to enhance the readability of the onboarding and deployment process. Published the library in **Azure Artifacts**, supporting easy creation of AI chat projects, with over **1,000** downloads internally.

Software Engineer06/2020 - 06/2021

SENSORO. @Machine Visual Research TeamBeiJing, China

- Refactored IVMS(intelligent video management system), identified and resolved **over 60** previously unresolved bugs.
- Launched the front-end of the **CV Algorithmic Labeling and Visualization Platform**, driving a notable **24%** increase in efficiency for the QA team’s testing process, while improving CV algorithm accuracy through the collection of data sets.
- Based on **AMap SDK** and **WebSocket**, implemented behavioral track, camera selection, alert push, and complicated interactive components, e.g. time selection in slider ways, area drawer in canvas.
- Supported the language globalization of IVMS **over 4 countries** with **vue-i18n**.
- Implemented API endpoints and test cases using **Koa2 and Jest in Node.js**, resulting in a test coverage increase to over **95%**, guaranteeing thorough and reliable testing of the service.
- Customized video player based on **AliPlayer**, supporting features like video capture, live playing, video on demand.
- Utilized **Sentry** for online monitoring of abnormal data, ensuring the high availability through proactive issue detection.
- Developed Git submission specifications with **husky** for the front-end team and promoted an elegant front-end coding style
- Maintained the **Dockerfile and Kubernetes YAML**, manage and deploy the projects for CI/CD with **Kubernetes**.

Software Engineer Intern12/2019 - 05/2020

SENSORO @Cloud Platform TeamBeiJing, China

- Developed the [official website](#), optimized its SEO, resulting in a **20%** improvement in search rankings. Added tracking and human verification features to enhance website security and implemented a form feature that runs without a backend server.
Tech Stacks: **Gulp, jQuery, Google Analytics , formspree, Google RECAPTCHA**
- Encrypted the website video for an official copyright. Tech Stacks: **video.js, ffmpeg**

OPEN SOURCE PROJECTS

Artify-AI

A web-based drawing application featuring **AI capabilities** (Text-to-Image, Image Background Removal, Text Generation), **OAuth** login, export/import options (JSON, SVG, PNG, JPG), **Cloud saving**, and **online checkout via Stripe**.
Tech: Next.js, Typescript, Shadcn/ui, Tailwind, React-Query, Stripe, Zustand, Zod, Fabric, Hono, OAuth [Link](#) — [Source Code](#)

Eizy-UI

A React UI Library included 10+ components, with React18, SASS, Storybook, and Jest. Supported user customization of SASS and nice accessibility(by color contrast, WAI-ARIA). [Doc Link](#) — [Source Code](#)

zip-webpack-plugin-v2

Powerful tool to bundle and compress Webpack-built assets into a zip file. [Npm Link](#) — [Source Code](#)

PUBLICATIONS

- [Research on Design and Application of Mobile Edge Computing Model Based on SDN.](#)
doi: 10.1109/ICCCN49398.2020.9209601.
- [Improvements and Challenges in StarCraft II Macro-Management A Study on the MSC Dataset.](#)
doi: 10.53469/jtpes.2023.03(12).05.
- [Computer Vision and Deep Learning Transforming Image Recognition and Beyond.](#)
doi: 10.62051/ijcsit.v2n1.06