Yizhi Chen

651-470-9987 | eizyc66@gmail.com | [Linkedin](#) | [Portfolio](#) | No Sponsor Needed

EDUCATION

Georgia Institute of Technology — Atlanta, GA, U.S.
M.S : Computer Science GPA 4.0 — *01/2025 - 08/2026*

Trine University — Allen Park, MI, U.S.
M.S : Information Science GPA 3.9 — *06/2022 - 06/2023*

China University of Petroleum
B.S : Software Engineering — Horn Scholarship Award — *09/2016 - 06/2020*

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 — 05/2025 - Current
Nvidia @Cloud Cost Management Team — *Santa Clara, CA, U.S.*

- 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 — 02/2023 - 05/2023
EZdealer — *Champaign, IL, U.S.*

- 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) — 07/2021 - 12/2021
Tammira — *Remote, U.S.*

- 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 — 06/2021 - 07/2022
Xiaoice.AI @Could Platform Team(AI Company split from Microsoft) — *BeiJing, China*

- 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 Engineer
06/2020 - 06/2021

SENSORO. @Machine Visual Research Team
BeiJing, 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 Intern
12/2019 - 05/2020

SENSORO @Cloud Platform Team
BeiJing, 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