Eizy Chen

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SKILLS

Languages: JavaScript, Typescript, Node.js, HTML5, CSS(SCSS/LESS/Tailwind), Dart, Python, Go, SQL
Tools: Git, pnpm, Webpack, Vite, Glup, Rollup, Jest, Docker, Kubernetes, Jenkins, AWS, Azure, Kibana
Frameworks&Libraries: Vue, React, React-Native, Flutter, jQuery, Nuxt.js, Next.js, Angular, GSAP, Three.js, D3.js, Koa2, MongoDB, Flask, Redis, Kafka, Elasticsearch

EXPERIENCE

Software Engineer Intern   07/2023 -9/2023
HuanLong Tech   *Remote*
- Developed a **React** web app with cross-platform compatibility using **Taro** and enhanced the UI with **Vant UI**.
- Designed and implemented a **Role-Based Access Control (RBAC)** system and portal with **React, Material UI, Python, and SQLAlchemy**.
- Built and deployed official website with global language and a responsive design using **Next.js, Tailwind CSS, D3.js.**

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), and fixed over 10 previous bugs.

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**

EDUCATION

Trine University   Allen Park, MI, U.S.
M.S : Information Science GPA 3.9

China University of Petroleum
B.S : Software Engineering — Horn Scholarship Award

OPEN SOURCE PROJECTS

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

- AI-driven Protein Engineering for DNA Sequence Modification.
  doi: 10.53469/jtpes.2024.04(03).17

- Precision gene editing using deep learning: A case study of the CRISPR-Cas9 editor.
  doi: 10.54254/2755-2721/64/20241357

- 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.

- An Overview of the Development of Stereotactic Body Radiation Therapy.
  doi: 10.54097/09nIy12x.

- Multimodal Imaging in Oncology: Challenges and Future Directions.
  doi: 10.54097/qw4tja89

- Diabetes Risk Analysis based on Machine Learning LASSO Regression Model.
  doi: 10.53469/jtpes.2024.04(01).08

- Computer Vision and Deep Learning Transforming Image Recognition and Beyond.
  doi: 10.62051/ijcsit.v2n1.06