

SHIQI PANG

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FRONT END ENGINEER

Software Engineer with over 3 years of experience designing, developing, and maintaining high-availability, user-friendly web applications across embedded systems, IoT, data visualization, real-time video streaming, and radio playback. Proficient in building hybrid applications and troubleshooting across web and terminal devices on different platforms. Skilled in full-stack development with expertise in React, Vue, JavaScript, TypeScript, Express, Node.js, MongoDB, and AWS (DynamoDB, Lambda Serverless, CI/CD).

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- Agile Development • Responsive Application • Performance Optimization • Code Version Control
 - Problem Solving • Team Collaboration • Critical Thinking • Web Applications

Languages: JavaScript, TypeScript

Web: HTML, Tailwind CSS, React, Node.js, AJAX

Web Services: REST API, WebSocket, WebRTC, JWT, CORS

Web/App Servers: Apache, Nginx

Frameworks: Express.js, Vue.js, Next.js

Databases: MySQL, MongoDB, DynamoDB

Design Patterns: Observer, Singleton, Factory, Decorader

SDLC: Agile

Tools: NPM, NVM, Webpack, VITE, Chrome DevTools, Git

Platforms: Window, Linux (Centos), AWS

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

DSPPA SMART TECHNOLOGY, Guangzhou, China • 05/2021 – 07/2024

A global manufacturer of PA/VA Solutions, Video/Paperless Conference system, Smart Home Audio System and Sound Equipment.

Front End Developer

Responsible for UI/UX of Web Applications.

- Reduced above-the-fold loading time for the landing page by implementing Lazy Loading and image optimization techniques to achieve a 20% improvement in page load speed.
- Optimized frontend build time for the application by adopting Webpack's pre-build strategy and code-splitting to reduce build time by 50% and improve CI/CD efficiency.
- Implemented a virtual list for large dataset rendering using React and DOM optimization techniques to achieve faster rendering performance and improved user experience.
- Refactored the source code architecture for the core application using modular Design Patterns and Dependency Injection to enhance scalability and maintainability, reducing future development effort.
- Ensured cross-browser compatibility for the application using modern CSS frameworks, babel.js and polyfills to achieve consistent performance across all major browsers.
- Conducted early-stage technical research for new feature development using prototyping tools and feasibility analysis to deliver innovative and scalable solutions ahead of deadlines.
- Improved website visibility and search engine rankings by implementing server-side rendering (SSR) and static site generation (SSG) with Next.js.
- Developed a custom encryption solution using Node.js to secure project packages with the company's proprietary secret.
- Designed and implemented a responsive frontend using Vue.js, Vuex for state management, and Vue Router for seamless navigation

Technologies Used: JavaScript, React, Vue, Webpack, Node.js, WebSocket, WebRTC, Android.

INTERNSHIP EXPERIENCE

Ling Yi Smart Technology, Foshan, China • 01/2021 – 03/2021

Provide businesses with simple, practical, and user-friendly HR SaaS products, as well as human resource management and talent management consulting services.

Frontend Developer

- Developed and maintained responsive and user-friendly front-end interfaces for homework management websites using Vue.js and Element-UI (MUI), improving user experience and ensuring seamless navigation.
- Collaborated with the backend team for data interaction and API integration using RESTful APIs to ensure seamless data flow and 100% accuracy in data handling.
- Partnered with UI designers for application interface development using Figma and responsive design principles to create visually appealing and user-friendly interfaces.

Technologies Used: *Vue.js, JavaScript, Webpack, Element-UI, Pdf.js, Figma.*

ACADEMIC PROJECTS

Maharishi International University (2024)

- **Policy Project:** Contributed to the development of a comprehensive application designed to manage the functionalities of a Policy System, including data management, user administration, and the publication, voting, and deletion of policies. My responsibilities included designing and building the user interface using React and Tailwind CSS, as well as implementing RESTful APIs using Express to ensure seamless communication between the frontend and backend systems. Utilized React, Express.
 - **StudyHub:** StudyHub is an advanced web-based platform aimed at revolutionizing the learning experience by integrating smart and collaborative features. Designed and implemented the API that collects user questions and associated resources. Enabled the system to generate precise and contextually relevant answers based on the provided resources by leveraging the OpenAI API, significantly enhancing the platform's ability to deliver personalized and accurate learning support. Utilized Angular, Express, MongoDB, Open AI API.
 - **AWS serverless authentication project:** Developed a serverless authentication project on AWS, encompassing both backend and frontend components. Designed and implemented the user interface using React and Tailwind CSS, deployed the application using S3, and utilized CloudFront to cache static files for improved performance. Built RESTful APIs using Express, deployed them using AWS Lambda and API Gateway, and stored data in DynamoDB. Configured S3 to handle file uploads from clients. Used AWS CloudFormation to automate resource provisioning and implemented CI/CD pipelines using AWS Code Pipeline to streamline deployment processes. Utilized Lambda, DynamoDB, S3, React, Express.
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EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 04/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: *Modern Web Applications, Cloud Computing, Web Application, Algorithm*

Bachelor in Electronic Information Engineering

Foshan University, Foshan, China (06/2021)

CERTIFICATIONS

[AWS Certified Solutions Architect – Associate](#) (01/2025)