

SUXIA WANG

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Education

Shenyang Institute of Computing Technology, Chinese Academy of Sciences Sep. 2011 – Jul. 2014
Master of Science in Computer Applied Technology GPA: 3.59/4.00 (top10%)

Information Engineering University Sep. 2007 – Jul. 2011
Bachelor of Science in Computer Science and Technology GPA: 89/100 (top0.5%)

Work Experience

Tencent Technology (Beijing) Co.Ltd Nov. 2015 – Sep. 2022
Front-end Developer Beijing

- Excellent problem-solving, communication, and teamwork skills with a keen eye for details and a strong commitment to delivering high-quality work.
- Developed and continuously upgraded 20+ high-performance large-scale and medium modern web applications targeting both web and mobile platforms.
- Faithfully architected around 100+ wireframes and prototypes into high-quality and responsive designs, optimized front-end performance and interaction details, and collected user feedback continuously, delivering exceptional online experiences to our website users across various devices.
- Developed components in a modular, reusable manner, enabling a single development effort to be utilized in multiple places. Designed, coded and maintained about 100+ responsive UI components.
- Experience as a project development team leader, facilitating projects from concept to launch.
- Conducted preliminary studies on technical architecture, considering factors including UI framework ecosystem, operational efficiency, development efficiency, maintainability, and community activity level.
- Spearheaded code reviews and provide constructive feedback to improve code quality and maintainability.
- Supervised and mentored 3 junior front-end developers, enabling them to achieve professional growth and personal growth.

Beijing Qunar Technology Co.Ltd Apr. 2014 – Oct. 2015
Front-end Developer Beijing

- Brainstormed and collaborated with product managers, designers, back-end developers, and QA teams to ensure the technical feasibility, achieve design goals, and deliver 6 high-performance web/mobile applications.
- Collaborated with team members using version control systems Git and SVN for source code management.
- Boosted security defenses in web front-end development against threats like XSS and CSRF to protect information security.

Research Experience

Front-End Visual Color Theme Universal Solution May 2021

- **Situation:** Tencent Zenvideo often needs custom color themes, but its pages are built on different frameworks, React.js and Vue.js, requiring separate development of different theme colors based on distinct UI component libraries for each framework, leading to inefficient processes.
- **Task:** Devised a universal theme color solution for UI component libraries of different frameworks, thereby avoiding additional development costs and creating a smooth development experience.
- **Action:** Designed and coded a universal plugin @tencent/webpack-theme-colorpicker. Invited four developers from my team for trials with different scale projects to experience development configuration, and tracked related metrics to analyze and assess its performance, such as time required for multiple compilations in different deployment environments, the size of packaged style, etc.
- **Result:** Implemented this plugin in the Zenvideo project, reducing webpack packaging time by 19.6%, saving the size of the theme main style package by 86.1%, and theme colors loaded smoothly without any delay.

Company Standard Front-end Scaffolding Tool Mar. 2019

- **Situation:** Every new project required cumbersome configuration development of various company development platforms for different uses, including monitoring, data reporting, continuous integration, environment deployment, etc.
- **Task:** Developed a front-end scaffolding for agile Company Standard project generation, allowing for easy configuration and reuse.
- **Action:** Extracted a company standard front-end Server-Side Rendering solution with required middleware services and unified configurations, provided example documentation to assemble an easy-to-use scaffold, and encapsulated it into the workflow suite development.
- **Result:** Enabled agile workflow construction, saving development costs and enhancing development efficiency.

CMS Automated Deployment Tool

Aug. 2017

- **Situation:** The Tencent News portal website involved many projects depending on a Content Material System for content distribution, and all of its front-end developers had to manually upload built front-end assets to specific channel directories and copy-paste HTML, leading to low development efficiency.
- **Task:** Developed a simple, cross-platform command-line tool to download and upload assets, making an easy-to-use close-loop tool to upload and download assets.
- **Action:** Designed and coded a CMS-automated-deployment tool, studied every specific step of manual operations of CMS platform, and utilized headless browser libraries PhantomJs and CasperJs to automate uploading repetitive tasks.
- **Result:** Invited seven developers in our team to try this tool. With just one configuration per project, it was possible to close the loop of the front-end workflow, improving development efficiency by approximately 40%. This tool was later extended for use by the entire department.

Publications

Master's thesis: WANG Su-Xia, Design and Realization of Report Management System Generator for Web Application, Graduate School of the Chinese Academy of Sciences (Shenyang Institute of Computing Technology), 2015

Journal Paper: WANG Su-Xia, YU Fang, Zang Hui, Report Management System Generator for Web Application, Computer Systems & Applications, 2014,23(1):28-32

Translation Contributions(20%): Haojun Zhang, etc. Virtual Honeypots: From Botnet Tracking to Intrusion Detection, 2011, China Water & Power Press, ISBN:9787508480169

Technical Skills

Languages: JavaScript, TypeScript, Node.js, CSS, LESS, SASS, HTML, SQL, Python, Java, C, C#, C++

libs/tools: jQuery, Vue, React, Redux, Jest, Webpack, Gulp, Grunt, Umi, Bootstrap, Whistle, Firebug, Fiddler, Git, SVN, Photoshop, CorelDraw, Axure

Projects

Zenvideo | *zenvideo.qq.com*, Core Developer

2021

- Designed and developed a new technical solution with FFmpeg and WebAssembly to realize asynchronous video transcoding and audio separation, reducing users' time required for subtitle recognition by 70%-80%.
- Implemented a Service Worker to achieve streaming loading of audio and video resources after importing files, developed file transcoding with FFmpeg and WebAssembly, reducing the waiting time and resource loading time by over 90%.
- Implemented video editing mask effects with PixiJS and multiple technical solutions, solved issues related to dragging, scaling, and optimized performance. To realize the mosaic effect, the mosaic area shall be adjusted uniformly with the project, with the position updated in real-time.
- Coded and launched a unified authentication solution for Zenvideo editing with the node access layer, and broke down departmental barriers to facilitate cooperation among different teams, addressing high communication costs and technical challenges arising from different technical solutions and stacks.
- Developed and monitored abnormal data during material playback, modular player abnormal reporting mechanism, and customized reporting of material duration data for reference in different channel material traffic data to support decision-making.

Baina System | *Copyright Media Management System based on content platform distribution*

2020

- Developed and integrated multiple information into one comprehensive multi-dimensional Kanban system, improving the procedure transparency of the management of content providers.
- Architected an intuitive and easy-to-use visualization platform to provide integrated data support for decision-makers.
- Developed server-side services with Koa, React, Webpack, with 20+ responsive UI components and 12+ middleware components.
- Implemented continuous integration and deployment pipeline, reducing release cycles by 28%.
- Independent recruitment and front-end outsourcing, assessing project requirements and regular code review.

Tencent News Home | *www.qq.com*, Independent Front-end Developer

2018

- Brainstormed in the entire process of user research, tracked and analyzed the general interests and behaviors of 10 million users, helping to decide to realize scene-oriented, intelligent, and personalized innovative information recommendations centered on users.
- Implemented large, medium, and small designs with HTML, CSS, and JavaScript to bring the visual and interactive elements to life, paying close attention to performance optimization and interactive details of pages to offer high-quality page-browsing experience for users.
- Automated latest news update of Tencent's homepage, saving labor operational resources and improving work efficiency with the content management platform.

Workforce Management System <i>Development Team Leader</i>	2022
<ul style="list-style-type: none"> Designed system architecture based on a low-code platform. Gained a comprehensive understanding of low-code core engine components, protocols, materials, etc. Implemented customized components, and configured data source interfaces, permissions, and approval flow functionality, reducing deployment time by 80%. Controlled the development tempo of 4 team developers, and outputted corresponding detailed platform-related operation documents. 	
Navigation Audit System <i>highly scalable content audit system for pictures, texts, and videos</i>	2022
<ul style="list-style-type: none"> Enabled rapid integration of new audit services with general universal solution, and coded with React and Umi. Implemented core features, including audit, quality inspection, various types of data visualization, etc. Developed a mature front-end node architecture for access validation with a test coverage rate of 60%. 	
Nebular System <i>Integrated service for content security learning, training, and examinations</i>	2019
<ul style="list-style-type: none"> Developed with Vue framework, Webpack module bundler and Element-UI library. Implemented responsive design without breakpoints with HTML, CSS, and Javascript, promoting smooth visual experience. Designed and developed universal component modules for playing video, previewing rich text content with performance optimization techniques including lazy loading. 	
Tencent Sports Community <i>fans.sports.qq.com, UGC sports interest circle</i>	2017
<ul style="list-style-type: none"> Participated in the initial wave of developer learning and implementing the Vue library, and developed user and management ends applications with Vue and Webpack. Protected web pages from Cross-Site Scripting attacks with verification of UGC Content and a Content Security Policy. Developed a CMS development tool based on Phantomjs and NW.js, reducing team workflow response time by 40%. 	
User Map System <i>real-time presentation of flight order data on Qunar.com</i>	2014
<ul style="list-style-type: none"> Developed visualization display of user data on the China map with d3.js with object-oriented points, lines, and planes. Implemented object-oriented programming practices such as inheritance to create data objects. 	
Mengtuoling System	2014
<ul style="list-style-type: none"> Worked as an independent front-end developer for developing both B-end and C-end applications. Designed and developed CSS and JavaScript Code in a modular way, ensuring compatibility with various web browsers including IE7+, FireFox, Chrom, Opera, etc. Developed with jQuery, Handlebars & JSON, rendering dynamic HTML pages. 	
Scalper Price Comparison Platform	2015
<ul style="list-style-type: none"> Developed with the Express framework for Node.js and jade template to request data from server interface to render page. 	

Awards & honors

2020 Outstanding Volunteer, Tencent PCG Charity Campaign;
2019 Outstanding Employee, Tencent PCG Editorial Operation Department;
2013 Outstanding Graduate, Shenyang Institute of Computing Technology, Chinese Academy of Sciences(10%);
2011 Outstanding Academic Performance Award, Information Engineering University(1%);
2011 Photoshop Competition, Information Engineering University(1%);
2010 The Top Students Honor, Information Engineering University (0.5%);
2010 National Inspirational Scholarship, Education Department Of Henan Province(0.5%);
2010 Outstanding Student, Information Engineering University;
2010 Outstanding Academic Performance Award, Information Engineering University(0.5%);
2009 The First Prize Scholarship for Outstanding Students, Information Engineering University(0.5%);
2009 Outstanding Student, Information Engineering University;
2008 The First Prize Scholarship for Outstanding Students, Information Engineering University(0.5%);
2008 Outstanding Student, Information Engineering University;
2008 The First Prize in the Seventh Advanced Mathematics Contest, Information Engineering University(0.5%);

Community Service

2023: Parent Teaching Assistant Volunteer in Huilongguan Town Central Kindergarden;

2021: Tencent Academy Public Welfare Lecturer in Cybersecurity for Shijia Primary School;

2018-2022: Volunteered in Tencent Charity Sales, Charity Studio, etc.

2013: Planned and hosted the Celebration Activity of the Graduate Department and Research Institute;

2012: Volunteered in book sorting of University's library;

2009-2011, Teamleader: Managed team of 5 members and ran weekly meetings to produce English radio programs for *English Radio Station of Electric Institute* in the School of Electronic Technology, Information Engineering University;

2007-2009, Teamleader: Managed team of 5 members and ran weekly meetings to produce radio programs *News Wide Angle* for *Voice of the School of Science* radio station in the School of Science, Information Engineering University;