

Jacob Wilson

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Senior Software Engineer | Full Stack Developer | Tech Lead

Senior Software Engineer with 11+ years of experience in solution design, system architecture, and application deployment. Experienced in leading teams in leading teams, driving performance improvements, and delivering high-quality software solutions aligned with business goals. Experienced in all stages of the software development lifecycle, optimizing systems, and creating scalable, maintainable architectures.

Professional Experience

Senior Software Engineer / Tech Lead

Kickoff by Zuju | Aug 2023 – Dec 2024

- Led the development of the Minimum Viable Product (MVP), improving team collaboration and serving as a foundation for future feature enhancements.
- Designed and implemented a comprehensive frontend architecture leveraging AWS services, and integrated with a Node.js backend for scalable data processing.
- Architected a frontend solution with React and Next.js, reducing application load time by 40% and increasing page speed, resulting in a 15% boost in user retention.
- Mentored and guided 7 junior developers, reducing onboarding time by 20% and increasing team collaboration through regular code reviews..
- Streamlined authentication flows, increasing security and reducing user complaints by 25%.
- Integrated Stripe payment gateway, generating a 20% increase in transactions and enabling recurring revenue within the first 3 months.
- Streamlined app performance by identifying key bottlenecks, reducing load times by 35%, and enhancing user experience metrics.
- Implemented video streaming functionality using the Amazon IVS player to display live sports matches sourced from Sportradar & OBS studio, enhancing user engagement and providing a seamless viewing experience.
- Led the migration from Create React App to Next.js, leveraging Node.js for server-side rendering, improving SEO rankings by 50% and reducing the overall bundle size by 30%.
- Implemented automated testing strategies (unit, integration, E2E), reducing production bugs by 40%.

- Refined CI/CD pipelines, accelerating release cycles and improving team deployment confidence by 25%.
- Implemented a GenAI Chatbot using a fully managed Retrieval-Augmented Generation (RAG) solution, utilizing Knowledge Bases for Amazon Bedrock to enhance user interactions and improve response accuracy.

Senior Software Engineer

Honeydew | *May 2022 - Jul 2023*

- Created a scalable React-based frontend architecture, ensuring seamless performance as the user base grew by 50%.
- Accelerated authentication flow design, decreasing user drop-off during sign-up by 18%.
- Refined application performance, leading to a 20% reduction in load times and a measurable improvement in user satisfaction.
- Established a test-driven development (TDD) process, resulting in 30% fewer production issues.
- Refined CI/CD pipelines, reducing deployment times by 45% and increasing overall development efficiency.
- Developed a comprehensive microservice architecture for a library management system using NestJS, RabbitMQ(via CloudAMQP), TypeORM, and PostgreSQL (hosted on Supabase), enabling efficient service communication and scalability.

Senior Software Engineer

TOKIGAMES | *Oct 2021 - Apr 2022*

- Revamped the frontend architecture and SEO strategies, resulting in a 25% increase in organic search traffic and a 40% boost in site performance.
- Collaborated with senior engineers to optimize system reliability, cutting bug-related downtime by 15%.
- Established coding best practices, improving code quality and reducing technical debt by 20%.
- Enhanced UI components, which led to a 10% increase in user engagement.
- Integrated Redis for caching and session management, significantly improving response times and reducing database load in the game management system.

Senior Full Stack Web Developer

IngeniousVision | *Mar 2018 - Oct 2021*

- Created and scaled high-traffic e-commerce platforms, driving a 28% growth in client revenue through optimized checkout flows.

- Engineered and maintained secure healthcare systems (EMR/EHR), reducing system downtime by 18% and enhancing team productivity.
- Led the YTX Finance web application project, developing a blockchain-based platform for NFT minting and a decentralized card game using Web3.js and Solidity, which increased user transactions by 15% in its first month.
- Revitalized the frontend architecture of various SaaS applications, reducing codebase complexity by 20% and improving maintainability.
- Delivered client projects ahead of deadlines, leading to a 28% boost in client satisfaction.

Senior Frontend Developer

New Marketing | Jan 2014 – Jan 2018

- Designed and developed over 7 custom Magento e-commerce websites, driving a 28% increase in client sales.
- Redesigned checkout processes, leading to a 20% increase in customer purchases.

Education

Bachelor of Science in Computer Science

City University of Hong Kong | 2010 – 2013

- Constructed a hybrid mobile app for fast food delivery as a final year project, utilizing Python backend APIs.
- Collaborated on a multidisciplinary robotics project, enhancing teamwork and technical skills.

Diploma in Information Technology

Fudan University | 2007 – 2010

- Developed full-stack web applications as part of the final year project, focused on the fast food delivery industry.

Key Skills

- **Programming Languages:** JavaScript, TypeScript, Python, Rust, PHP
- **Frontend:** React.js, Next.js(App Router/Page Router), Redux, Zustand, Tailwind CSS, Material UI, Storybook, Framer Motion
- **Backend:** Node.js, Express.js, FaskApi, WebSockets, REST APIs, GraphQL, PrismaORM, Nest.js

- **Databases:** MongoDB, MySQL, PostgreSQL, ORACLE
- **Caching & Messaging:** Redis, RabbitMQ
- **Testing:** Jest, Mocha, Cypress, Playwright, Chai
- **Version Control:** Git, GitHub, GitLab, Bitbucket
- **DevOps & CI/CD:** Docker, Jenkins, GitLab CI, CircleCI, Github Actions
- **E-commerce Platforms:** WooCommerce, Magento, OpenCart
- **Blockchain & Web3:** Solidity, Ethereum, Solana, Web3.js
- **Cloud Services:** AWS, GCP, Azure
- **Agile Methodologies:** Scrum, Kanban
- **AI & ML Frameworks/Tools:** Amazon Bedrock, Amazon SageMaker, LangChain, LangSmith, LangGraph, RAG, VectorStore, Embedding

Technical Proficiencies

- **Web Development:** Expertise in building large-scale, scalable web applications with modern JavaScript frameworks (React, Angular, Vue, Next.js)
- **Performance Optimization:** Skilled in code profiling, lazy loading, and other performance enhancement techniques. Utilize DataDog for comprehensive monitoring, enabling proactive identification of performance bottlenecks.
- **Error Tracking:** Integrate Sentry for real-time error tracking, enabling quick identification and resolution of bugs, minimizing user impact and improving overall application stability.
- **CI/CD & Automation:** Experience setting up and optimizing CI/CD pipelines, automating testing and deployment.
- **Full-Stack Development:** Proficient in developing both client-side and server-side logic, integrating front-end with backend systems.
- **Database Management:** Worked with MySQL, PostgreSQL, and MongoDB to optimize database performance..
- **Payment Integrations:** Integrated payment gateways (e.g., Stripe, PayPal) to facilitate secure and seamless online transactions.
- **Cloud & Hosting:** Experience deploying applications on AWS, GCP, and Azure, including configuring virtual machines and storage.