Jaques Fang

Senior Full Stack Developer

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SUMMARY

I'm a Senior Full-Stack Software Engineer with nearly decades of experience designing, building, and deploying high-performance applications for clients across industries — from global enterprises like LexisNexis to startups and government agencies. I combine deep backend expertise in PHP (Laravel), Node.js with modern frontend skills in React, Next.js and Vue, delivering solutions that are scalable, secure, and user-friendly.

PROFESSIONAL EXPERIENCE

Cyberdyne Systems, Inc, *Senior Backend Developer*   01/2025 – Present

Built and scaled InfluencerStudio, an AI-powered content automation platform enabling brands and creators to generate influencer-style videos, voiceovers, and social media posts without traditional shoots

Architected Node.js microservices orchestrating AI pipelines across ElevenLabs(voice cloning), FAL/Akool/Replicate (image & video generation), and Remotion +FFmpeg (media assembly/export)

Eliminated backend bottlenecks and resolved frequent memory leaks by profiling Node.js services, refactoring async workflows, and optimizing API orchestration across multiple third-party AI providers

Implemented a PgBoss-backed distributed job orchestration system, supporting retries, concurrency limits, and safe queuing of large-scale video and audio rendering tasks

Added real-time rendering progress via WebSockets, allowing users to see step-by-step status of media jobs, significantly improving user engagement and retention

Optimized PostgreSQL with indexes, batch updates, and caching, cutting media search latency by ~40% and reducing dashboard load times

Strengthened operational stability with PM2 for process management and Sentry +Datadog for performance/error monitoring, cutting time-to-fix by nearly 50%

Delivered a high-throughput, fault-tolerant backend capable of processing large media batches reliably, directly increasing customer trust, retention, and revenue growth

SKILLS: React, Next, Node, Typescript, PostgreSQL, AWS, Docker, WebSocket, PgBoss, AI models, OpenAI

Cyberdyne Systems, Inc, *Full Stack Developer*   07/2022 – 12/2024

Created a municipal licensing automation platform to digitize and streamline business license applications for city governments

Developed responsive, multi-step web forms in Laravel with Vue3 and React.js components for dynamic validation and live previews

Built secure RESTful APIs in PHP/Laravel to manage application workflows, payment processing, and document generation

Integrated Stripe and PayPal for online payments, replacing legacy gateways

Developed government staff dashboards with React-powered charts and Vue-based inline editing features

Migrated legacy ASP.NET ✐ data into the new Laravel system while preserving historical integrity

Implemented automated email/SMS notifications and cloud deployment to AWS for scalability

SKILLS: PHP, Laravel, Vue.js, React.js, MySQL, JavaScript, HTML5, CSS3, ASP.NET ✐ (legacy integration), Stripe API, PayPal API, AWS

Cyberdyne Systems, Inc, *Embedded Software Developer*   08/2021 – 02/2022
Engineered an embedded spelling and grammar checking engine for handheld devices with extremely limited RAM and processing power

Wrote memory-optimized algorithms in C/C++ for dictionary compression, tokenization, and string matching, with PHP-based content management tools for rule and dictionary updates

Created a lightweight Laravel admin interface to manage and deploy grammar rule sets

Worked with firmware engineers to integrate the software into production devices while maintaining performance targets

Built a browser-based testing suite using Vue.js for QA teams to validate accuracy across multiple dialects

Reduced software footprint by over 40%, enabling deployment on low-spec consumer devices. Tech Stack: C, C++, PHP, Laravel, Vue.js, Embedded Systems, Custom Memory Management, Algorithm Optimization, Unit Testing

SKILLS: C++ · C (Programming Language) · Embedded Systems · Algorithm Development · Embedded Software Programming

Cyberdyne Systems, Inc, *Software Engineer*   11/2019 – 03/2021
Designed and developed a remote monitoring and management platform for a multi-location healthcare provider to manage patient-care devices and facility systems

Built backend services in Laravel microservices to support modular expansion

Created Windows Services and API endpoints consumed by Vue.js dashboards for live device monitoring

Integrated with HL7-based data exchange protocols for EHR compatibility, using PHP API bridges for interoperability

Developed interactive admin panels in Vue2.js for real-time device status updates, charts, and alert visualizations

Ensured full HIPAA compliance with encrypted data storage, role-based access, and audit trails

SKILLS: PHP, Laravel, Perl, SQL Server, Vue.js, JavaScript, TypeScript, HTML5, CSS3, HL7, HIPAA-compliant security.

Cyberdyne Systems, Inc, *Senior Full Stack Developer*   04/2017 – 07/2019
Developed a large-scale knowledge management portal for LexisNexis to streamline access to millions of legal, regulatory, and business records

Built backend modules in PHP/Laravel for enhanced maintainability and scalability

Designed SQL Server schemas, stored procedures, and indexing strategies to handle high-volume queries with minimal latency

Implemented advanced filtering, tagging, and full-text search features, with front-end enhancements using React.js components for modernized user interaction

Collaborated with UX designers to produce an intuitive UI using HTML, CSS, JavaScript, and early Vue.js prototypes for dynamic interfaces

Integrated secure authentication and authorization aligned with corporate Active Directory standards

SKILLS: PHP, Laravel, SQL Server, React.js, Vue.js, HTML5, CSS3, JavaScript, XML, IIS

EDUCATION

Touro University, *Bachelor's Degree, Computer Science* 04/2011 – 09/2015

SKILLS

Programming languages — C, C++, PHP, C#, JavaScript, TypeScript, SQL., **Cloud Platforms** — AWS (EC2, S3, Lambda), **Frameworks & Libraries** — Laravel, React, Vue, Nuxt, Node, **DevOps & CI/CD Tools** — Git, GitHub Actions, Bitbucket, Jira, CI/CD, **Frontend Technologies** — React, Next.js, Redux, Vue, Nuxt, Tailwind CSS, MUI, Shadcn, Hooks, SPA,, **Backend Technologies** — Node, Laravel, Codeigniter, Perl, GraphQL, gRPC, tRPC, **Testing & Agile Tools** — TDD, Jest, Cypress