

TRISTAN DUCK

Software Engineer

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PROFESSIONAL SUMMARY

Versatile Full-Stack Software Engineer with over 7 years of expertise in Vue.js, Laravel, and MySQL, adept at creating scalable, user-focused applications. Skilled in overseeing complete software development lifecycles, including wireframing, system architecture, database design, and front-end UX/UI development.

EXPERIENCE

Software Engineer **Braebon Medical Corporation** **June 2017 – Present**

Manufacturing, Sales, Regulatory ERP (Nuxt JS [Vue]/Laravel/MySQL)

- Upgraded frontend to Vue, improving development speed and enabling quicker feature design cycles.
- Manages all aspects of business needs: shipping, RMAs, CRMs, support, inventory, documentation, timesheets and more.
- Converted regulatory excel sheets into web form format resulting in time savings and a centralized area for documentation leading to greater organization.
- Integrated customer billing functionality allowing for billing stats, customer tracking, and time savings.
- Created a statistics dashboard for real-time product tracking, performance analysis, and billing trend insights.

Cloud Management Services (JS/PHP/MySQL)

- Maintained and enhanced a web application enabling sleep clinicians to manage patient sleep studies utilizing proprietary hardware and software.
- Built a video conferencing feature using Twilio, driving increased customer adoption and revenue growth.
- Developed site-wide statistics generation to analyze and predict future trends.
- Designed a sleep report microservice with interactive visualizations powered by Vue and eCharts.

Main Website & Store (Nuxt JS [Vue]/Strapi)

- Redesigned using Figma. Developed a modern, responsive website to align with the brand's vision.
- Enhanced user experience and accessibility by revamping the storefront with Stripe integration, leading to an expanded customer base.
- Implemented a headless CMS for seamless backend integration and streamlined admin panel management.

Real-time Data Monitor (Nuxt JS [Vue]/Flutter/Express.js/Redis/MQTT)

- Designed and developed a real-time data monitoring web app and mobile app using Nuxt JS and Flutter.
- Built a scalable backend with Express.js, leveraging WebSockets and MQTT to manage multiple client connections.
- Optimized data handling with Redis Pub/Sub and RSMQ for efficient load balancing and messaging.

SKILLS

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|-----------------------------|--------------|-------------|-----------|
| • Vue.js/Nuxt.js | • Electron | • WebSocket | • GraphQL |
| • Laravel | • Vuetify | • Git | • MongoDB |
| • Node.js/Express.js | • MySQL | • Redis | • SEO |
| • Flutter | • JavaScript | • MQTT | |
| • Stripe | • PHP | • Figma | |

EDUCATION

Ottawa, ON **Algonquin College** **Computer Programming**