JEFF SANTOS

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Skills

- Frontend: React, React Native, TypeScript, HTML, CSS, Swift, Redux (Sagas, Toolkit),
 Styled Components, Responsive & Cross-platform Dev
- Backend: Python, Node.js, Express, Tornado, Flask, PostgreSQL, MySQL, MongoDB,
 SQLAlchemy, REST & GraphQL APIs
- DevOps & Systems: Linux, Docker, AWS (S3, EC2), Azure, CI/CD, OpenVPN, HAProxy, Nginx, SSH, Git, Bash
- Integrations: Shopify, Stripe, SendGrid, JWT, Keycloak, OAuth 2.0, WebSockets, AdMob

Experience

Lead Software Engineer, Full Stack

June 2023 - Present

Switch Health

Toronto, ON

- Enhanced the **marketing site UI** using **Shopify Liquid**, enabling dynamic content rendering and improved customization for a seamless user experience and reducing friction to sales.
- Led a comprehensive UI refresh, enhancing usability, accessibility, and modernizing the front-end experience.
- Developed a **White Label architecture** to support B2B tenants, enabling customized branding and workflows.
- Built scalable healthcare solutions using React, Styled Components, TypeScript,
 Redux Sagas, Python (Tornado), and MySQL.
- Implemented a robust **component versioning system** for recall management, ensuring regulatory compliance and enhanced flexibility for version control.

- Enhanced the system to accommodate a wide range of medical tests (HPV, STI, HbA1c) by implementing optimized database architectures and integrating a CI/CD pipeline for seamless deployment of new test types.
- Executed critical **database migrations** of over 5000 lines while maintaining **zero downtime** and ensuring data consistency for 4 million+ users.
- Orchestrated front-end migration from React Redux to Redux Toolkit, enhancing developer productivity and reducing bundle size.

Software Engineer, Full Stack

April 2022 - June 2023

Switch Health

Toronto, ON

- Architected RESTful APIs for complex test types, integrating back-end systems to handle high-throughput data with optimized API performance.
- Migrated integral data from the codebase to a centralized database for improved consistency and scalability.
- Debugged and tested software, identifying and resolving critical issues to maintain system reliability and performance.
- Engaged in thorough code reviews, enforcing best practices and ensuring high-quality maintainable code.

Founder & Business Manager

January 2012 - December 2021

Like New Renovations

Toronto, ON

- Founded and led a renovation business, overseeing both residential and commercial projects with a focus on operational efficiency and cost control in high-pressure environments.
- Managed cross-functional teams, ensuring safety compliance and timely project completion.

Projects

Lead Software Engineer, Full Stack

Family Albums Toronto, ON

- Designed and built a **clean, user-friendly UI** for managing and categorizing family albums, ensuring intuitive navigation and seamless organization.
- Developed a highly available cloud storage platform with **React**, **TypeScript**, and a **Python/Tornado** API integrated with **AWS EC2**, **S3**, and **PostgreSQL**.

- Integrated **Stripe** for secure payment processing, enhancing transaction reliability using **SSL certificates** and advanced **encryption methods**.
- Monitored and maintained the production environment using Slack webhooks,
 HAProxy, and Docker containers for streamlined operational insights and fast deployment.
- Developed custom python scripts for managing multipart uploads and triggering automated email notifications for customers using a database queue.

Lead Software Engineer, Full Stack

Realty Host Toronto, ON

- Designed and implemented a **White Label architecture**, **enabling custom UIs** for each realtor tenant while maintaining a unified back-end.
- Engineered a scalable real estate platform with **Node.js** and **Keycloak** for secure authentication, integrated with the Toronto Regional Real Estate Board (TRREB) via **Ampre API** using **OData**.
- Developed a custom property search client, utilizing trial-and-error solutions to resolve sparse API documentation and optimizing API request-response cycles.
- Implemented a secure, highly performant back-end using **OAuth 2.0** and **JWT-based authentication** for data integrity and user privacy.

Software Engineer, Frontend

Daily Forecast Toronto, ON

- Developed an iOS weather application using **Swift**, incorporating **Core Data** and plist for efficient data management and persistence.
- Accrued over twenty thousand downloads, with one thousand active daily weather requests.
- Incorporated ads using Google AdMob to monetize user activity.
- Utilized **OpenWeather 3.0 API** for accurate real-time weather data.

Software Engineer

NTML Toronto, ON

- Developed a lightweight Frontend Framework, a highly extensible HTML Domain-Specific Language (DSL) written in Nim, designed to enhance front-end development with a React-inspired component model.
- Utilized **Nim Macros** and **Templates** to streamline web development workflows, improving code maintainability and developer experience.

Software Engineer

KeepItSimpleServer Toronto, ON

• Developed a lightweight HTTP server framework for Python, emphasizing minimalism and efficiency.

- Implemented support for HTTP methods including **GET, POST, PUT, PATCH, and DELETE**, enhancing RESTful API development.
- Designed pre and post-request hooks (**prepare()** and **on_finish()**) to streamline request handling and improve code modularity.
- Enabled both synchronous and asynchronous request handling by supporting HTTPServer and ThreadingHTTPServer, increasing flexibility for various application needs.
- Facilitated robust JSON-based error handling and parsing of query parameters and JSON bodies, improving developer experience and application reliability.

References available upon request.