

# JEFF SANTOS

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## SKILLS

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**Frontend:** React.js, TypeScript, Javascript, HTML, CSS, DOM, Liquid, Redux, React Native, Swift, Styled Components

**Backend:** Python, Tornado, Typescript, Node.js, ExpressJS, Nim, Httpbeast

**Database:** SQL, PostgreSQL, MySQL, SQLGlott, ORM, Core Data, OData, NoSQL, MongoDB

**Technologies:** Linux, Git, Docker, Nginx, HAProxy, REST API, CI/CD, Amazon Web Services (EC2, S3), Azure, Stripe, Keycloak

## EXPERIENCE

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### Lead Software Engineer, Full Stack

June 2023 – Present

*Switch Health*

*Toronto, ON*

- Built a pipeline that reduced new test type implementation time from two weeks to a single day
- Held regular strategy meetings with the CEOs of Switch Health and BioTest to drive product enhancements
- Optimized API queries, improving response times by up to 200% in critical areas
- Redesigned relational database structure while preserving data integrity for over 4 million users
- Increased marketing site conversions by 20% by implementing a sticky checkout button using Vanilla JS and Liquid
- Mentored junior developers and conducted code reviews across the entire product lifecycle

### Software Engineer, Front-End

January 2023 – June 2023

*Switch Health*

*Toronto, ON*

- Transformed the platform into a White Label solution, doubling profitability by enabling B2B integrations
- Optimized state management by migrating to Redux Toolkit, enhancing performance and maintainability while reducing bundle size by 60% and development time by 25%
- Led a complete UI redesign, translating Figma designs into a fully implemented front-end experience based on Product team specifications
- Refactored the front-end application into modular, reusable components, improving maintainability and accelerating development speed

### Software Engineer, Back-End

April 2022 – December 2022

*Switch Health*

*Toronto, ON*

- Restructured the project into a well-organized folder hierarchy, accelerating development by 20%
- Implemented best practices and eliminated technical debt, improving team collaboration and code maintainability
- Worked closely with QA and Team Leads to ensure high-quality code delivery
- Designed and developed RESTful APIs for complex test types, optimizing back-end integration for high-throughput data
- Diagnosed and resolved critical software issues, enhancing system stability and performance
- Participated in daily standups and weekly sprint planning to align development efforts

## PROJECTS

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### Family Albums | *Cloud Storage Solution*

- Built a highly available cloud storage platform with a React/TypeScript front-end and a Python/Tornado back-end, integrated with AWS EC2, S3, and PostgreSQL
- Implemented Stripe for secure payment processing, leveraging SSL certificates and advanced encryption for transaction security
- Automated operations using Slack webhooks and Docker, improving system monitoring and deployment efficiency

### Realty Host | *Content Management System for Realtors*

- Developed a CMS for Realtors, enabling tenant-specific UI customization while ensuring a unified, scalable back-end architecture
- Integrated TRREB's Ampre API via OData, optimizing data ingestion and streamlining property search functionality
- Implemented OAuth 2.0 and JWT authentication, ensuring secure and scalable user management

### Daily Forecast | *iOS Weather Application*

- Developed an iOS weather app using Swift and Core Data, processing real-time data from OpenWeather 3.0 API
- Achieved 20K+ downloads with 1K+ active daily users, optimizing UI/UX for retention and engagement
- Monetized the app via Google AdMob, implementing strategic ad placements to maximize revenue

#### **NTML** | *Front-End Web Framework*

- Developed a lightweight, React-inspired front-end framework using Nim, enhancing HTML templating and component-based UI development
- Optimized web development workflows with Nim Macros and Templates, improving maintainability and reducing boilerplate code
- Designed the framework to be highly extensible, allowing seamless integration with existing web architectures

#### **KeepItSimpleServer** | *Back-End Web Server*

- Developed a lightweight HTTP server framework supporting RESTful APIs, optimizing request handling and response performance
- Implemented pre and post-request hooks (`prepare()` and `on_finish()`) to streamline request lifecycle management
- Enabled synchronous and asynchronous request handling via `HTTPServer` and `ThreadingHTTPServer`, improving scalability

## EDUCATION

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### **Seneca College**

North York, ON

*IPC144 - Introduction to Programming Using C*

*Fall 2020*

*OOP244 - Introduction to Object Oriented Programming Using C++*

*Winter 2020*

*OOP344 - Object Oriented Programming II Using C++*

*Spring 2021*

*JAC444 - Introduction to Java for C++ Programmers*

*Summer 2021*

*MAP523 - Mobile App Development - iOS*

*Fall 2021*