

# TOM SEBASTIAN

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Senior Full Stack Developer with proven expertise in modern web technologies (React, Angular, React Native Node.js, Python) specializing in optimizing complex systems and delivering maintainable and scalable code. Expertise in debugging complex production issues and implementing architectural patterns.

## Skills

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React, Angular, React Native, Next.js, Material-UI Backend: NestJS, Express, Python, Django, Flask  
Databases: MongoDB, PostgreSQL, MySQL DevOps: Docker, Kubernetes, AWS, Azure, Azure Devops  
Testing: Jest, Vitest, Playwright, Cypress, Other: RESTful APIs, Redux, RxJS, React Query, TypeScript, Git.

## Professional Experience

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### Senior Developer

Rizing LLC, Toronto

Feb 2024 - Present

- Led feature development of a data collection and mapping application with **Angular 17, NX monorepo and NestJS, Postgres**, deployed in **K8s (Azure AKS)** and implemented configurable features and **optimized CI/CD**, reducing feature development time by 40%, achieving 99.9% availability, and accelerating deployments by 30%.
- Implemented a configurable **request forwarding proxy service** utilizing Angular Service Workers for request interception and a **custom backend proxy service** which handles **token management** and routing to multiple third-party server endpoints.
- Developed data-intensive **React frontend** using **Redux**, and **Context API** and integrated multiple third-party tools, creating cohesive UX and reduced development time by 35% by using **reusable components**.
- Implemented frontend integrations for connecting multiple enterprise systems (**SAP, FME, Azure Data Factory, ARCGIS**) using **PostMessage API, RESTful services and WebSocket**, creating a unified user interface.

### Web Developer

Boyd Interactive, Toronto

August 2022 - Feb 2024

- Developed a real-time notification system using **Angular Services, RxJS observables, EventSource SSE** implementing context-aware updates and smart batching that increased first-time purchases by 30%.
- Developed **responsive payment flows for multiple payments providers** with comprehensive error handling and status notifications, increasing in checkout completion rates by 25%.
- Achieved 20% reduction in external service costs by **optimizing API call timing** - refactored frontend components to defer third-party service calls until user interaction.
- Improved user experience by creating **reusable npm packages** to standardize payment gateway integrations and analytics tools implementation, enabling seamless transactions and data tracking across **cross platform Angular SPA**.

### Full Stack Developer

Techster Technologies, Vancouver

April 2023 - Nov 2023

- Led development of a security guard management system on a **K8s** infrastructure, overseeing the project from requirements analysis to final implementation.
- Developed event-driven backend APIs with **NodeJS, Express, and TypeScript** using **Domain-Driven Design**, resulting in an expansive, modular, and maintainable codebase.
- Created **multi-tenant REST API** with individual databases for each client, enhancing security and data isolation, used **Redis for caching** and implemented **token-based JWT authentication**.

- Used design patterns including **Factory, Singleton, Repository, and Observer**, resulting in a maintainable, scalable, and developer-friendly code structure.
- Developed a user-centric admin UI, **integrating tables, lists, search bars, paginated results, drop-downs, and modals** for enhanced user experience and efficiency.
- Boosted UI responsiveness and speed through optimized React rendering, **utilizing props, state management, and memoization**.
- Incorporated automated unit testing and built a **CI/CD pipeline** using GitHub Workflow for streamlined, efficient deployments.

### Software Developer

Group Security, Vancouver

July 2020 - July 2022

- Developed video alarm receiving application with **Python, Flask and React**, and Postgres collaborating with multiple vendors for their proprietary integrations.
- Built RESTful API using **NodeJS and Express and Mongoose** following **Model-View-Controller (MVC)** architectural pattern.
- Designed and developed dashboards using **React, Redux, Material UI and Next.js**
- Utilized **static testing tools and linting tools**, as well as unit testing tools like **Jest**, to test React UI.
- Created **Custom Hooks, Utilized Context API, and Higher Order Components** to create scalable and reusable UI.
- Developed mobile applications using **React Native** and the **Expo** framework, delivering seamless user experience on multiple devices.

### Software Developer

Vinclis Technologies, India

August 2017 - December 2018

- Developed backend Rest API in **Python, Django** and deployed in AWS.
- Collaboratively developed and maintained complex front-end applications using **React.js and Redux**.
- Worked closely with the QA team to ensure code quality, including participating in **code reviews and unit testing**.
- Implemented **responsive design** principles to ensure compatibility across different devices and browsers.
- Implemented **i18n and WCAG** accessibility standards across applications, resulting in a 40% increase in user engagement.

### Education

**Masters in Energy Management (NYIT, Canada)**

Graduated: July 2020

**B- Tech in Computer Science (MACE, India)**

Graduated: July 2017