Xiaoyong (Tony) Xu

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SUMMARY

Highly skilled Full Stack Web Developer with 6 years of experience in developing scalable E-commerce platforms and SaaS integrations. Proven track record in leading development teams and delivering high-impact solutions using modern technologies like **Typescript**, **NodeJS**, **ReactJS**, and **AWS**.

TECHNICAL SKILLS

Programming Languages & Framework: **Typescript**, **NodeJS,** JavaScript, C, C++, Swift, **React**, NextJS, Redux, Ruby on Rails
Databases & Tools: SQL, MongoDB, Kubernetes, Kafka, **AWS**, GCP, Terraform, Commercetools, Docker, GraphQL

PROFESSIONAL EXPERIENCE

Orium/Myplanet   **Toronto, ON, Canada**
Senior Software Developer   *Jun/2021 - Apr/2025*

- Led the back-end development for multiple large-scale E-commerce platforms using **NodeJS** and **React**.
- Integrated third-party SaaS products, enhancing the platform's functionality and user experience.
- Spearheaded feature delivery and troubleshooting, significantly reducing downtime and improving client satisfaction.
- Led the migration of cloud functions from IBM to Google Cloud, optimizing event-driven architecture using Google Cloud Pub/Sub, and ensuring seamless data flow with Confluent Kafka.

Projects:

Harry Rosen (E-Commerce Platform)
Harry Rosen, a leading Canadian luxury menswear retailer, underwent a major digital transformation to modernize its commerce platform. I played a core role in this initiative as a senior backend engineer, driving architectural decisions, service migrations, and reliability improvements in a production-critical environment.

- Cloud Migration Leadership:
  Led the full infrastructure migration from IBM Cloud to Google Cloud, including containerized services on GKE and legacy serverless functions to GCP Cloud Functions. This reduced vendor lock-in, improved deployment flexibility, and aligned the stack with industry standards.
- Platform Reliability & CI/CD:
  Architected and implemented blue-green CI/CD pipelines using GitHub Actions and Cloud Build. Integrated monitoring and alerting using GCP Monitoring, Datadog, and Slack, reducing deployment-related incidents by 50% and enabling rollback within minutes.
- Data Architecture Optimization:
  Tuned MongoDB by introducing sharding and indexing strategies to scale read/write performance under high concurrency. This reduced query latency by 25% during peak sales periods.
- Event-Driven Design with Kafka:
  Migrated custom retry systems to Confluent Kafka Connect and designed Kafka-based systems for real-time event syncing between CommerceTools and Algolia. This enhanced cross-system consistency and eliminated stale product data in customer-facing channels.
- Checkout & Loyalty Revamp:
  Rebuilt the loyalty system using TalonOne APIs, replacing a brittle jQuery-based plugin with a modern **NodeJS** backend. Also implemented a headless checkout integration with Bold Commerce, improving checkout performance and UX across devices.
- Legacy System Stabilization:
  Maintained and gradually replaced legacy IBM Cloud components while ensuring zero downtime and business continuity. Provided ongoing hotfixes, SaaS API patching (Bold, Narvar), and cross-team support during high-volume campaigns.
- Cross-Functional Collaboration:
  Worked closely with DevOps, product managers, and third-party vendors to align technical implementation with business goals, ensure smooth releases, and meet strict delivery timelines.
- Tech Stack: Google Kubernetes Engine, GCP Cloud Functions, IBM Cloud, Terraform, Helm, YAML, GitHub Actions, Cloud Build, Kafka, Confluent Cloud, Kafka Connect, MongoDB, **TypeScript**, **NodeJS**, **React**, Express, CommerceTools, Algolia, Jesta, Bold Commerce API, TalonOne API, Narvar, GCP Pub/Sub, Webpack

Teilor (E-Commerce platform)
Contributed to the launch of a luxury jewelry e-commerce platform, focusing on performance, scalability, and integrations with enterprise tools.

- Implemented the integration of PayU for secure, localized payment processing and Amplience for dynamic product content delivery.
- Ensured scalability and maintainability by following modular design patterns with Next.js and GraphQL.
- Tech Stack: **Typescript**, Amplience, Elastic Path, NextJS, GraphQL

Convergence Concept Inc.   **Vancouver, BC, Canada**
Software Developer & Team Lead   *Mar/2019 - Jun/2021*
- Managed and mentored a team of junior developers, guiding them through complex projects and technical challenges.
- Led the development of full-stack applications using MongoDB, Express, **React**, and **NodeJS**.
- Successfully delivered projects on time and within budget, increasing the company's client base by 20%.

Projects:
Fintel Connect (Affiliate Marketing Platform)
Built a full-featured affiliate marketing platform serving banks and fintech brands across North America. As tech lead, I was responsible for backend architecture, infrastructure automation, and end-to-end product delivery.
- Led development of a full-featured affiliate marketing web platform with real-time tracking and advanced reporting for banks and financial brands. Responsible for AWS infrastructure, database design, authentication/user management, ad/product modules, commission engine, and analytics.
- Spearheaded backend architecture, scaling to support thousands of daily affiliate transactions and detailed performance reports.
- Delivered award-winning features, earning Best of FinXTech Connect and Best Solution for Revenue Growth in 2020.
- Tech Stack: **TypeScript**, **AWS** (EC2, Lambda, RDS, S3), MongoDB, **NodeJS**, **React**, Auth0, Stripe, CSS, GraphQL

Bidify (Proposal Automation SaaS)
Led development of a **SaaS** web app for automating RFP/proposal workflows using government tender RSS feeds.
- Built core features including AWS-hosted backend, authentication, custom RSS parsing, and Lambda-based scheduling for real-time proposal alerts.
- Implemented scheduled data fetching via Lambda, with user-configurable notifications and filters.
- Delivered complete MVP, enabling small businesses to track and respond to opportunities faster and more efficiently.
- Tech Stack: **TypeScript**, **AWS**, **NodeJS**, **React**, RSS Parsing, Auth0, PostgreSQL, Serverless Framework

Lighthouse Lab Bootcamp & Simon Fraser University   **Vancouver, BC, Canada**
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Projects:
Eventer (Full-Stack)
- Group project for an outdoor events management system.
- Responsible for using Google APIs (OAuth, Map and Location) and Open-Weather API on the Activities Page and Admin Page, and image files transformation by Multer.
- Tech Stack: **React**, **NodeJS**

Jungle (E-commerce)
- Implemented features of "Product Sold Out - Badge", "Admin Categories", "User Authentication", "Order Details", "E-mail Receipt" and "Product Ratings".
- Fixed bugs including "Missing Admin Security" and "Checking out with Empty Cart".
- Tech Stack: Ruby on Rail

Charity (IOS Mobile App)
- Collaborated on Clarity, a mental health mobile app that offers personalized anxiety treatment plans, mini-games, data tracking, and a community message board.
- Designed and implemented the UFO game, an interactive mini-game aimed at reducing anxiety through engaging, fast-paced gameplay.
- Tech Stack: Xcode, Swift

EDUCATION

Simon Fraser University   **Burnaby, BC, Canada**
Bachelor of Sciences (Math and Computing Science)   *Oct 2018*

Lighthouse Lab   **Vancouver, BC, Canada**
Diploma of Web Development   *Mar 2019*

CERTIFICATION

Amazon Web Service (AWS)
AWS Cloud Practitioner Certification   *Dec 2020*

Commercetools
Commercetools Certified Associate Javascript Developer   *May 2022*