

Gar0 Nazarian

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EDUCATION

Toronto Metropolitan University

Bachelor of Science, Major in Computer Science

Toronto, ON

2014 – 2019

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, SQL (TypeORM & SQLAlchemy & Postgres & Supabase), HTML/CSS

Frameworks: NextJS, NestJS, React, Node.js, Material-UI, ShadCn, Chakra-UI, Tailwind

Developer Tools: Git, GitHub Actions, AWS (EC2 / S3 / IAM / Route53), Digital Oceans, Jira, Webstorm, DataGrip, Docker

Libraries: Tanstack/React-Query Full Suite, Zustand, Redux (RTK) , Sentry.IO, BrowserStack, Selenium, Cypress

EXPERIENCE

Senior Software Engineer

Hamza E-commerce

January. 2024 – Present

Remote

- Lead the frontend architecture and adoption of the **MedusaJS** open source platform, heavily modifying it to create a multi-vendor e-commerce platform.
- Contributed to the accelerated launch of an e-commerce platform using MedusaJS, which secured over 1000 customers in its initial three months of operation.
- Architected and led the development of a feature-rich Admin Portal using the full **Tanstack Suite** (Router, Query, Form, Table) with **Zod** for type-safe form validation, establishing a team-wide SOP that accelerated future development.
- Collaborated closely with vendor owners to understand business requirements, and development sprint roadmaps, ensuring alignment between stakeholder expectations and technical delivery.
- Enhanced system stability and cost-efficiency by implementing API debouncing for critical quantity modification endpoints, preventing resource exhaustion in Redis and AWS under heavy load.
- Implemented **Chainlink** Price feeds to display product prices in cryptocurrencies (USDT, ETH, USDC), enabling real-time decentralized price conversions in the marketplace, utilized in currency changers, and developed customer settings to enhance personalization
- Established and maintained a robust CI pipeline for the Dockerized application stack, including backend (**Next.js**), frontend, Redis, and MeiliSearch, automating builds, testing, linting, and dependency management tasks.
- Designed and implemented robust e-commerce platform features; building out essential modules including Wishlist functionality, Review & Rating systems, Order History tracking, and intuitive Product Navigation (Categories, Filters, Shop, Product Detail, and Vendor pages). Delivered highly performant and SEO-friendly user experiences by implementing SSR hydration with Tanstack Query V5, utilized client-side mutations for responsive UI updates, and established a scalable backend architecture for seamless data flow and persistence.
- Configured **Sentry.IO** on Both Marketplace and Admin applications for error boundary, user feedback, performance, and tracing errors.

Full Stack Developer (Contract)

Pixel Koi Co.

Sep. 2022 – December. 2023

Remote

- Developed and maintained a **Nextjs** support website for a Web3 company OrdKit, enabling customers to submit tickets and employees to efficiently approve refunds for incorrect payments, saving the customer support team time and increasing customer satisfaction. Utilizing Next13 SSR and Supabase for role based authentication.

- Developed a **Vite** PWA for improved performance and 90 and above grading on all lighthouse metrics for **TuffDAO**. The simple application boasted seamless animations and was built using **React hooks**, **Framer**, **Blurhash**, and **Node.js** (SMTP for contact).
- Prototyped a cross-platform Health Food Logging and Meditation App **SumPlus** in **React Native**, collaborating with UI/UX designers and developers; integrated **USDA FoodData API** for nutrition data, and implemented features including fasting timer, calendar, and meditation timer, with state management via **Redux Toolkit** and **RTK Query** for caching.
- Configured and automated **CI pipeline** with **GitHub Actions** for **SumPlus** to enforce code quality through linting, unit testing (**Jest**), and build verification.
- Stabilized the production **AWS EC2** environment for an AQI monitoring client, AirDeveloppa, by architecting a monitoring solution with **AWS CloudWatch**. Diagnosed and resolved critical **Nginx** configuration errors and persistent CPU throttling to ensure high uptime.

Software Developer

Sep. 2018 – 2022

Inclusive Media Design Centre

Toronto, ON

Lead Software Developer (AAC Project)

Sep. 2020 – Sep. 2022

- Co-authored the successful grant proposal and technical specifications that **secured** \$250,000 CAD in government funding for the project prototype.
- Implemented a novel Augmentative and Alternative Communication (AAC) web app using **React.js** and **D3.js**, featuring a custom radial interface for efficient navigation by single-switch users with severe motor impairments.
- Led a team of 3 developers, managing the project roadmap on **Jira** and serving as the primary technical liaison for the project owner. My leadership on the backend and collaboration with the frontend developer ensured timely delivery of features.
- Implemented a predictive text engine by integrating the **OpenAI API** via a **Django** (DRF) backend, significantly reducing the time and effort required for users to construct sentences.
- Owned the complete product lifecycle, from translating user study feedback into technical requirements to establishing a full CI/CD pipeline **GitHub Actions** for automated testing and deployment.

Backend Developer (CAIS Project)

Sep. 2019 – Sep. 2020

- Architected and developed the **Django** backend for a data collection platform used in a PhD user study, capturing subjective assessments from D/HoH viewers on closed captioning quality factors (delay, speed, missing words).
- Created a system to reliably serve 22 unique error variation samples to users and securely persist their qualitative ratings, which formed the core dataset for a predictive user model.
- Wrote comprehensive **Pytest** scripts with mock data to ensure the integrity of the collected assessment data and managed the live deployment on an **Apache** server, ensuring high availability for study participants.
- Built a fully responsive frontend interface using **JavaScript**, **jQuery**, and **Bootstrap** for data collection and user interaction.

Backend Developer (WebMoti Project)

Sep. 2018 – Sep. 2019

- Wrote a WebRTC application using **Vidyo.IO's API** in **.NET** which sets up a **WebRTC video stream**. Software was used in conjunction with a robot allowing a student with autism to stay at home and continue to participate in class
- Three case studies were performed to locate the effectiveness of the system within various classrooms. Students', parents', and teachers' feedback was so necessary in view of further refinement of the robot's functionality, as well as its user experience
- Prioritized streaming traffic using **Quality of Service** techniques to ensure minimal latency and high performance for **1080p 60fps** video across varying network conditions.
- Designed and prototyped hardware using an Arduino Uno, including soldering and motor control programming in C+