

Sergei Borja

Junior Full Stack Developer

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CAREER SUMMARY

Recent Computer Science graduate with a minor in Digital Experience Design, focused on Full Stack development and building robust, user friendly web applications. Combines a software engineering foundation with user research and interface design to deliver scalable, accessible, and performance driven solutions. Seeking entry level opportunities to grow as a Full Stack developer and contribute to impactful projects.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, HTML5, CSS3

Frontend: React, Next.js (App Router), TanStack Query, Zustand, Webflow

Backend & Data: Node.js, Express, REST API design, Zod, OpenAI API, PostgreSQL, Supabase, Redis (Upstash), pgvector

Testing & Tooling: Vitest, Bun Test, Playwright, Vercel, Railway, Git & GitHub, Agile

UX & Design: User research, wireframing, information architecture, interaction design

PROJECTS

Tomo: Full Stack Japanese Learning Platform

May 2026 to Present

Solo Full Stack developer & designer

Next.js · React · TypeScript · Node · Express · PostgreSQL/Supabase · Redis · OpenAI · FSRS · Bun Monorepo

- Designed and built a complete Full Stack learning platform that unifies a spaced repetition scheduler, an AI teaching layer, and a calm, accessible interface in one system, removing the tool switching between flashcard apps and chatbots that derails most self study routines.
- Engineered a hardened, type safe Express API: shared Zod schema contracts across a TypeScript monorepo keep the React and Express sides in sync, and every AI generation request runs through authentication, rate limiting, idempotency replay, and a Redis backed circuit breaker.
- Modeled a six table PostgreSQL schema and enforced its core data integrity rule three independent ways (an XOR check constraint, a cloning RPC, and row level security) so shared JLPT decks never absorb a learner's private progress, with all FSRS scheduling writes executed in a single transaction and recorded in an append only audit log.
- Built a keyboard first review experience on a reusable card stack design system, cached server state with TanStack Query using background invalidation, and supported reduced motion and Japanese language semantics end to end.

Excel Society Website Redesign

Feb to Apr 2025

UX & Front End Developer · MacEwan University, in collaboration with Ripen

Webflow · CMS · Finsweet · JavaScript · HTML/CSS

- Redesigned and built a responsive nonprofit website for the Excel Society, improving accessibility, information architecture, and how visitors find services, events, volunteer opportunities, and donation pathways.
- Developed responsive Webflow layouts, implemented CMS structures, integrated Finsweet tools, and added custom JavaScript, creating reusable components that make long term content management easier for staff.

EDUCATION

MacEwan University

Sep 2020 to Dec 2025

Bachelor of Science (B.Sc.), Computer Science · Minor in Digital Experience Design · Edmonton, AB

- Coursework in data structures & algorithms, databases, web development, and systems design; built web apps and capstone projects emphasizing MVP development and responsive, user centered design.