

Torrin Leonard

Full-Stack Software Engineer

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Summary

Full-stack software engineer focused on AI-powered web apps, vector search pipelines, and accessible UI systems (WCAG). Comfortable owning 0->1 product features end-to-end, collaborating with cross-functional teams, and shipping to production in fast-paced environments.

Experience

Full Stack Software Developer — Equator Studios

Mar 2023 – Present | Hybrid / Waterloo, ON

Tech: Node.js/Express, React + `destamatic-ui`, TypeScript, MongoDB, Python/FastAPI, OpenAI (embeddings + fine-tuning), Qdrant, ChromaDB, GeoPandas, Docker, GitLab CI/CD, GitHub Actions, DigitalOcean, AWS, Proxmox, Linux

- Owned 0->1 AI proposal product end-to-end and shipped to production as sole engineer.
- Built vector ingestion + retrieval pipeline with OpenAI embeddings, Qdrant, and ChromaDB; integrated into our main application.
- Implemented client fine-tuning pipeline with OpenAI fine-tuning API and productionized services.
- Designed and built safeguards for model failures, fine-tuning evals, hallucinations, prompt injection, and continuous context retrieval/management.
- Integrated server-hosted GIS segmentation models for satellite imagery selection in the main app.
- Added Stripe payment systems and supported site-based pricing rollout with product.
- Onboarded and mentored 2 developers; participated in interviews and code reviews.

Co-Founder, CEO, Lead Developer — This Cozy Studio Inc.

Oct 2021 – Jan 2025 | Waterloo, ON

Tech: React, Node.js, Django, Python, Blender API, HTML/CSS/JavaScript, AWS

- Led client-facing delivery for 3D/NFT pipeline projects; scoped contracts, managed timelines, and shipped quickly.
- Built and maintained `Blend_My_NFTs` (Python/Blender API), reaching ~1k GitHub stars.
- Developed web tooling for asset pipelines and automated rendering/export workflows.
- Coordinated 3D asset pipeline standards with studio collaborators to improve consistency and delivery quality.

Automation & Accessibility Engineer (Contract / Part-time) — League

Mar 2021 – May 2022 | Remote

Tech: JavaScript/TypeScript, TestCafe, Node/npm, Git, Jira, WCAG

- Built TestCafe regression suites in TypeScript/JavaScript, reducing manual cycles and improving release confidence.
- Performed WCAG accessibility audits and partnered with engineers/PMs to ship compliant releases.
- Maintained automation and triaged defects within CI workflows.

Automation & Accessibility Engineer (Contract / Part-time) — worX4you Inc.

Jun 2013 – Mar 2021 | Contract / Various Clients

Tech: JavaScript/TypeScript, TestCafe, Node/npm, Git, Jira, WCAG

- Delivered automation and accessibility testing for startup clients; strengthened regression coverage.
- Created reusable test tooling and cross-browser checklists to support WCAG-aligned releases.

Projects

destamatic-ui — <https://torrin.me/destamatic-ui>

Lightweight UI layer built on top of existing company DOM/state tooling to package in-house primitives into a polished, reusable interface.

- Used for Equator mapping/AI platform, torrin.me, and [OpenGig.org](https://opengig.org).
- Built a sleek UI library on top of established internal tooling, improving developer ergonomics without disrupting existing React-based conventions.

OpenGig.org — <https://opengig.org>

Open-source platform for gig workers and customers.

- Built a full-stack app in JavaScript with a custom UI framework, database state-sync, and WebSocket layer.
- Deployed to a DigitalOcean droplet behind NGINX, with GitHub Actions for CI.

Blend_My_NFTs — https://github.com/torrinworx/Blend_My_NFTs

Blender add-on for generating 3D NFT collections.

- Reached ~1k GitHub stars, 200K+ YouTube views, and is used by multiple studios and NFT projects.
- Automates 3D asset generation and export pipelines from Blender.

MangoSync — <https://github.com/torrinworx/MangoSync>

Local music player with AI-assisted lyrics and metadata.

- Uses Whisper to auto-generate and align lyrics for time-synced playback.
- Displays time-synced lyrics in an Apple-style karaoke mode lyric scroller.
- Enhances albums with additional metadata like artwork and descriptions.

Skills

Languages: JavaScript, TypeScript, Python

Frontend: React, destamatic-ui, HTML/CSS

Backend: Node.js, Express, FastAPI, Django

Databases: MongoDB, Qdrant, ChromaDB

Cloud & DevOps: Docker, GitLab CI/CD, GitHub Actions, DigitalOcean, AWS, Proxmox, Linux (Ubuntu/Arch)

AI & Data: OpenAI API (embeddings + fine-tuning), GeoPandas, pandas

Accessibility: WCAG audits, W3C Web Accessibility (WAI0.1x)

Testing: TestCafe, automation testing