Benjamin Burnell

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Education

Ontario Tech University   **Oshawa, ON**
Bachelor of Science (Honours), Computer Science   *Sep. 2025 - May. 2029*

Experience

Green For Life (GFL)   **Feb. 2024 – Jun. 2024**
Co-op Student   *Toronto, ON*

- Researched and evaluated **i18n/locale libraries** (criteria: currency/number/date formats, RTL support, performance), built a proof-of-concept, and recommended the best-fit option for the payments stack.
- Implemented the chosen library end-to-end in **the payment workflow, handling currency/decimal precision, localized dates/times, and user-locale detection** to reduce formatting errors.
- Collaborated with backend engineers and the testing team to **validate edge cases** (multi-currency, time zones) and **support rollout** from staging to production.

City of Toronto   **Winter 2021 – 2025**
Rink Guard   *Toronto, ON*

- Monitored **ice conditions and patron flow, identified hazards, and coordinated** with staff to keep the rink safe and orderly.
- Enforced rules diplomatically, de-escalated conflicts, documented incidents, and assisted after falls (basic first aid, escorts), **supporting emergencies and crowd control** during peak periods.

Morning Star Christian Fellowship   **Summer 2022 – 2025**
Church Intern   *Toronto, ON*

- Planned and supported **church events** (scheduling, volunteer coordination, setup/teardown), ensuring smooth execution and welcoming guest experiences.
- Led **community-engagement** efforts—promotions, social posts, and outreach—boosting attendance and participation across youth and adult ministries.
- Maintained and updated the **church website** (content, announcements, media), improving timeliness, clarity, and ease of navigation for visitors.

Projects

Bible Board | bibleboard.ca | Python (FastAPI), JavaScript, Supabase, Render   **Oct. 2025 – Nov. 2025**

- Built three **REST APIs** - Search, Version Fetch, and Interlinear - on **FastAPI/Render** with request batching, retries, and CORS safeguards to deliver fast, reliable verse lookups.
- Engineered an interactive whiteboard UI (**HTML/CSS/JS**) with drag/zoom, verse/notes/songs elements, and autosave snapshots stored in **Supabase buckets**.
- Implemented **Supabase Auth** with **Row-Level Security (RLS)** to enforce **owner-only editing**, plus **public/private board visibility** for **shareable read-only views**.
- Deployed to **bibleboard.ca** with **GitHub Pages + custom domain/DNS**, and added UX improvements like **"Load more" pagination** and **debounced search** for smoother performance.

Lyrify | github.com/benjaminburnell/Lyrify | HTML, CSS, JavaScript, Spotify Web API   **Sep. 2025 – Oct. 2025**

- Built a **browser-based player** that syncs **Spotify playback** with time-coded lyrics from **LRCLib (LRC parsing, autoscroll, word highlighting).**
- Implemented **OAuth 2.0 (PKCE)** with Spotify to authorize playback/now-playing data; added **token/refresh handling** and **rate-limit backoff**.
- Designed a **responsive UI** with dynamic theming from album-art colors, keyboard shortcuts, and accessibility-minded contrast.

Technical Skills

Languages: JavaScript, TypeScript, Python, HTML/CSS, C/C++
Frameworks: FastAPI, Node.js/Express, React, Next.js
Developer Tools: Git & GitHub, GitHub Actions, Render, Supabase, GitHub Pages, VS Code, Cloudflare
Libraries: aiohttp, BeautifulSoup, requests, OpenCV, MediaPipe, PyAutoGUI, Supabase JS SDK