Jason Cameron

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EXPERIENCE

Project Metropolis   Toronto, ON
Backend Lead   *Jun 2023 - Present*
- Led team-wide effort to modernize API docs with django-spectacular, ensuring automated and up-to-date documentation
- Streamlined deployment processes, resulting in a *20%* reduction in average build time. Simplified deployments to one-click scripts, improving overall system agility and minimizing average downtime by *12%*.

Backend Member   *Sep. 2022 - Jun. 2023*
- Implemented REST API filters, reducing page load times by *25%* and decreasing server load by *3%* during peak usage.
- Engineered and implemented polymorphic comments, likes, view counts, and saves, enhancing platform features and laying the groundwork for future advancements.

NOTABLE PROJECTS

RedditVideoMakerBot | *Python, Reddit, FFmpeg, AWS Polly, Playwright, Web Scraping*   May 2022 - Present
Automated tool for automatically transforming Reddit posts into dynamic videos using code, eliminating traditional editing
- Simplified running the bot with a GUI for configuration which helped the bot grow to **6000+** stars on GitHub with **100,000+** clones of the GitHub repository.
- Enhanced bot's Text-to-Speech (TTS) functionality by reverse engineering the TikTok TTS API, and further improved it by integrating several other TTS engines, such as the AWS Polly API.
- Continuously improved and maintained the bot overcoming many challenges including but not limited to API rate limiting, copywritten background videos, Reddit and TikTok API changes and challenges with the bot running on **10,000+** different machines and across all major operating systems

Foodle | *TypeScript, Svelte, CSS, Python, Flask, Cloudflare, Google Analytics*   Aug. 2022 - Dec 2023
A food-themed twist of Wordle with an additional set of modes and features, adding a delicious twist to the classic concept
- Developed, maintained, deployed and hosted the site using *Svelte, Cloudflare and Github Pages*
- Listened to user's feedback and grew the game to **650,000+** unique visitors with **5,000,000+** total page views.

Screentime Showdown - Best financial hack at HTV 8 | *Express.js, React, Oauth2.0, Meta, PayBilt, Cohere*   Oct. 2023
Helping people quit social media with the help of a friendly competition and some monetary gain.
- Leveraged Meta's OAuth 2.0 and Webhook API to enable real-time detection and response whenever a user opened Facebook or Instagram on any of their devices.

PhysioQuest - Best use of MongoDB at JamHacks 7 | *Python, Django, HTML, JS, CSS, OpenCV, MongoDB*   Jun. 2023
Gamifying physiotherapy with AI to encourage consistency and accuracy when completing exercises.
- Designed and implemented the backend API and database models using Django and Django Rest Framework
- Integrated our trained CV model to the end user's webcam using *Django channels, UDP sockets and HTML's MediaStream*, enabling global device compatibility.

Scavenger Hunt | *Python, Django, CSS, JS, Oauth 2.0*   Nov 2022-Present
A scavenger hunt platform engineered to prevent cheating or RNG-based finds while ensuring fairness and integrity.
- Conceptualized and implemented the backend's core functionality using *Django*.
- Reorganized the architecture of the site by removing reliance on hard-coded configurations. Additionally, introduced functionality to support the execution of multiple concurrent hunts.

EDUCATION

William Lyon Mackenzie Collegiate Institute - Toronto, Ontario   Sep. 2022- Jun. 2026
- **Extracurriculars:** School Website Team *(Backend Lead / Vice-President)*, Competitive/Computer Programming Club(*System Administrator Executive*), Engineering Club (*Tech Lead*), School Newspaper (*Photographer / Quality Manager*), A/V Team (*Crew Member / Club Liaison*), School Satirical Newspaper (*Web Developer*), Robotics Club (Member)

SKILLS

Languages: Python, Golang, JavaScript/TypeScript Java, Lua, HTML/CSS/SCSS
Server Tools: Linux, Caddy, Docker, Cloudflare, Amazon Web Services, Microsoft Azure, Google Cloud (GCP), Oracle Cloud (OCI)
Developer Tools: Git, VScode, InteliJ, MongoDB, PostgreSQL, SQLite, RocksDB, LevelDB, Redis, Django, FastAPI, Flask, React, Svelte, Gin, P5.js, Github Actions, Postman, Tailscale
Productivity and Design Tools: Miro, Notion, Microsoft Suite, Canva, Photoshop, Latex