

JASON CAMERON

 portfolio |  jason@jasoncameron.dev |  github.com/jasonlovesdoggo |  linkedin.com/in/jsoncameron

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

- 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 & TikTok API changes & challenges with the bot running on **10,000+** different machines and across all major operating systems

Foodle | TypeScript, Svelte, CSS, Python, Flask, Google Analytics

Aug. 2022 - Dec 2023

- Individually created, maintained, documented, tested, deployed, and hosted my own twist of the popular game Wordle with an additional set of twists and features.
- Listened to feedback and grew the game to **650,000+** unique visitors with **5,000,000+** total page views.

Screentime Showdown - Winner 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 & Webhook API to enable real-time detection and response whenever a user opened Facebook or Instagram on any of their devices.

PhysioQuest - Winner 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, IntelliJ, 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