

# Jason Cameron

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## EXPERIENCES

### Lead Backend Developer

Sep. 2022 - Present

*Project Metropolis*

*Toronto, ON*

- Optimized Docker build processes reducing average build time from **140s** to **80s** by caching reused layers
- Automated API documentation generation conforming to OpenAPI 3.1 standards, saving **5** hours monthly per developer
- Streamlined deployment via centralized bash scripts, improving system agility and reducing average downtime by **12%**
- Established REST API filters, eliminating wasted API calls by **~30%** and decreasing server load by **3%** during peak usage
- Designed and implemented polymorphic comments, likes, view counts, and saves, increasing user engagement by **300%**

### Computer Science Tutor

Dec. 2023 - Present

*Toronto, ON*

- Instructed students aged 7-16 in Scratch, Python and basic web development through one-on-one and group lessons. Utilized a blend of interactive exercises and project-based learning to foster understanding.

## PROJECTS

[jasoncameron.dev/#/projects](#)

### RedditVideoMakerBot | *Python, Reddit, FFmpeg, AWS Polly, Playwright, Web Scraping* — 🐾

May 2022 - Present

Automated tool for seamlessly transforming Reddit posts into videos using code, streamlining traditional editing workflows

- Created a simplified configuration GUI, growing the bot to **6,300+** stars on GitHub and **100,000+** downloads
- Enhanced bot's Text-to-Speech (TTS) functionality by reverse engineering the TikTok TTS API, resulting in a **30%** reduction in processing time and a **25%** increase in speech clarity
- Ensured reliable operation of the bot across **10,000+** machines and all major operating systems despite API changes, rate limiting, and copyright issues

### Abacus | *Golang, Gin, Valkey, Docker, Jsoniter, SSE, JSONP, Linux System Administration* — 🐾

Apr. 2024 - Present

High-performing and lightweight API simplifying numeric tracking and analytics, eliminating custom backend infrastructure

- Scaled the site up to **1.5 million+** requests weekly while maintaining a **100% uptime** and **47.0ms** median response time
- Reduced infrastructure costs by **35%** and increased speeds by **22%** utilizing pipelining and optimizing Docker networks

### Foodle | *Typescript, Svelte, CSS, Python, Flask, Cloudflare, Google Analytics* — 🐾

Aug. 2022 - Present

A food-themed twist of Wordle with an additional set of modes and features

- Developed and deployed a high-performance Wordle-inspired game using Svelte, Cloudflare, and GitHub Pages. Grew it to **680,000+** unique visitors and **5,700,000+** page views via user-driven improvements

### mCTF | *Django, K8s, K3s, Docker, Valkey, PostgreSQL, Nebula* — 🐾

Jan. 2024 - Present

A Reusable Jeopardy-style CTF platform written using Django and Kubernetes

- Identified and rewrote critical SQL query reducing time to execute by over **80x** to **97ms** by leveraging precalculated database tables, leading to an over **50x** reduction in avg request time and an overall **60%** increase in user satisfaction

### 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

- Enabled management of an unlimited number of concurrent scavenger hunts through a robust configuration system, dramatically enhancing platform capacity and scalability

### 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 CV model to the end user's webcam using Django channels, enabling compatibility with devices globally

## FORMAL EDUCATION

### William Lyon Mackenzie Collegiate Institute - Toronto, Ontario

- **Extracurriculars:** School Website (*Backend Lead / Vice-President*), Competitive/Computer Programming Club (*System Administrator*), Engineering Club (*Tech Lead*), School Newspaper (*Photographer*), A/V Team (*Crew Member / Club Liaison*)

## SKILLS

**Languages:** Python, Golang, Java, JavaScript/Typescript, Bash, Nim, Processing, HTML, CSS/SCSS

**DevOps Tools:** Linux, Caddy, Nginx, trafilka, Docker, Cloudflare, WireGuard, GitHub Actions

**DevTools/Frameworks:** Git, IntelliJ, Django, FastAPI, Flask, React, Svelte, Gin, Celery, Postman, Tailscale

**Databases:** MongoDB, PostgreSQL, SQLite, RocksDB, Redis, Valkey

**Productivity and Design Tools:** Miro, Notion, Microsoft Suite, Canva, Photoshop, LaTeX