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 into one-click scripts, improving overall system agility and minimizing average downtime by *12%*
- Optimized *Docker* build processes reducing average build time from *140s* to *80s* by caching reused layers

Backend Member   *Sep. 2022 - Jun. 2023*
- Implemented REST API filters, eliminating wasted API calls by *30%* 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 API rate limiting, copywritten background videos, Reddit, TikTok and Streamlabs 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 - Present
A food-themed twist of Wordle with an additional set of modes and features.
- 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 **5,500,000+** total page views

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

Screentime Showdown - Best Financial Hack At HTV 8 | *Express.js, React, OAuth 2.0, 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

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*), 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, Java, Nim, JavaScript/TypeScript, Bash, Processing, HTML/CSS/SCSS
Server Tools: Linux, Caddy, Nginx, træfik, Docker, Cloudflare, 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