Jason Cameron

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EXPERIENCES

Software Engineer
StorageBox

Sep. 2024 – Present
Toronto, ON

- Architected StorageBox backend (Django REST Framework, Channels, Celery, Valkey) for *real-time* inventory, order processing, and secure transactions
- Developed **12** core APIs integrating Shopify, shipping carriers, and payment gateways; boosted responsiveness **136**

Project Manager
Project Metropolis

Sep. 2022 - Present
Toronto, ON

- Optimized Docker build processes reducing average build time from **140s** to **80s** by caching reused layers
- 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

Research Assistant
Lassonde School of Engineering, York University

Jun. 2024 - Aug. 2024
North York, ON

- Research Assistant to Dr. Alvine Boaye Belle **|** Analyzed AI/ML fairness, reducing model bias ~**15%**. Researched and proposed solutions to access barriers in tech, boosting underrepresented participation in program by **13%**

PROJECTS
jasoncameron.dev/#/projects

RedditVideoMakerBot | *Python, Reddit, FFmpeg, AWS Polly, Playwright, Web Scraping* — ⓸   May. 2022 - Sept. 2024
Automated tool for transforming Reddit posts into videos using code, streamlining traditional editing workflows
- Created a simplified configuration GUI, growing the bot to **6,700+** stars on GitHub and **350,000+** 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* — ⓸   Apr. 2024 - Present
High-performing and lightweight API simplifying numeric tracking and analytics, eliminating custom backend infrastructure
- Scaled the site up to **4+ million** requests weekly while maintaining a **100% uptime** and **46.0ms** median response time
- Reduced infrastructure costs by **35%** and increased speeds by **22%** utilizing redis pipelining
- Discovered and patched **CVE-2025-27421**, reducing server crash rate by **94%** and protecting 1,500+ daily users

Foodle | *Typescript, Svelte, CSS, Python, Flask, Cloudflare, Google Analytics* — ⓸   Aug. 2022 - Dec. 2023
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 **700,000+** unique visitors and **3,500,000+** page views via user-driven improvements

mCTF | *Python, Django, K8s, Docker, Valkey, PostgreSQL, Nebula, Nix* — ⓸   Jan. 2024 - Aug. 2024
A Reusable Jeopardy-style CTF platform written using Django and Kubernetes
- Identified and rewrote critical SQL queries 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

Caddy Defender | *Golang, Caddy, IP Blocking, AI/Scraper Mitigation, DevOps, Markov Chains,* — ⓸   Jan. 2025 - Present
Caddy module to block or manipulate requests originating from AIs or cloud services trying to train on your websites

FORMAL EDUCATION

William Lyon Mackenzie Collegiate Institute
Toronto, Ontario

- **Extracurriculars:** Student Council, School Website (Project Manager), Competitive 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, Fish, Nim, HTML, CSS/SCSS
DevOps Tools: Linux, Caddy, Nginx, traefik, Docker (Swarm, Compose, BuildX), Cloudflare, WireGuard, GitHub Actions
Tools/Frameworks: Django, FastAPI, Flask, React, Svelte, Astro, Gin, Celery, Postman, Tailscale, Git
Databases: PostgreSQL (PostGIS), SQLite, RocksDB, Valkey, Redis, MongoDB
Specializations: Backend Web Development, DevOps, System Administration, Linux Hardening