~ **Alex Garnett**   axfelix@gmail.com   https://github.com/axfelix   http://webambler.com

Work

DigitalOcean, Senior DevOps Technical Writer; 2021-Present

- Authored and edited public-facing server tutorials to drive product growth.
- Contributed to curriculum development and developer education initiatives.
- Provided support and scoping expertise to the marketing team.
- Helped overhaul content maintenance process using analytics data.
- Maintained interactive browser terminal stack.
- Organized local events for a remote-first team.

Simon Fraser University, Digital Preservation and Data Curation Specialist; 2012-2016.

-> Research Data Management and Systems Librarian; 2016-2020.

- Implemented data discovery and data encryption interfaces at a national level in Canada through consultation with stakeholders across universities and in government.
- Designed command line, web, and desktop tools for supporting preservation workflows and contributed to best practices locally around digitization and retention of audiovisual media.
- Worked with research computing and HPC on scaling up capacity; handled cloud infrastructure for university archives and provided guidance to researchers around hosted services.
- Liaised with external partners on open source collaborations in digital publishing.
- Imaged, migrated, and emulated legacy media.
- Helped local independent vendors adopt MediaArea tooling for lossless film transfers.
- Supervised software developers and RAs; created and maintained project roadmaps.

SocialFlow, Data Scientist; 2012.

- Performed social network analysis of real-time Twitter data for impact maximization.
- Wrote Hadoop queries and pitched media organizations.

City of Vancouver Archives, Digital Project Archivist; 2011.

- Cleaned up and re-structured archival records database; refined user specifications.

NextWerk vTeams, Development Coordinator; 2009.

- Acted as the server technician and client liaison for a distributed web development team.

Education

University of British Columbia, MLIS; 2009-2010.

University of Connecticut, BA, Cognitive Science and Linguistics; 2006-2009.

Selected Publications and Presentations

Garnett, A. (2022). Learning to Love Your Terminal. *DigitalOcean.*
https://www.digitalocean.com/community/conceptual_articles/learning-to-love-your-terminal.

Garnett, A. (2022). How To Write a Serverless Function. *DigitalOcean.*
https://www.digitalocean.com/community/tutorials/how-to-write-a-serverless-function.

Garnett, A. (2022). How To Deploy and Configure Meilisearch on Ubuntu. *DigitalOcean.*
https://www.digitalocean.com/community/tutorials/how-to-deploy-and-configure-meilisearch-on-ubuntu-22-04.

Garnett, A. (2022). How To Use minikube for Local Kubernetes Development and Testing. *DigitalOcean.* https://www.digitalocean.com/community/tutorials/how-to-use-minikube-for-local-kubernetes-development-and-testing.

Garnett, A. (2022). How to Set Up a Video Streaming Server using Nginx-RTMP. *DigitalOcean.* https://www.digitalocean.com/community/tutorials/how-to-set-up-a-video-streaming-server-using-nginx-rtmp-on-ubuntu-20-04.

Berger, A., Garnett, A., Kaltman, E., Masinter, L., Schwaid-Lindner, W., Rampin, V., and Weber, N. (2021). Reference Guide to Emulation. *Software Preservation Network.* https://cocky-keller-94bd84.netlify.app. (URL to change)

Garnett, A., and Zhang, J. (2020). Lightweight Zero-Knowledge Encryption for Repository Deposit of Sensitive Data. *DLF Forum.*

Stathis, K., and Garnett, A. (2020). Making a Harvester Harvestable: Federating an OAI endpoint directly from Postgres. *Access Conference.*

Garnett, A., Winter., M., and Simpson, J. (2018). Checksums on Modern Filesystems, or: On the Virtuous Consumption of CPU Cycles. *iPres.* http://www.sfu.ca/~garnett/ipres18.pdf

Skills and Miscellanea

- Hacking of deprecated interactive media for display or retention
- Dataset training, modeling and visualization
- Database and server management and general dev ops provisioning
- Participating in RFP processes guided by government privacy and purchasing requirements
- Editorial process management through Jira
- Microcontroller breadboarding and low-level I/O for digital forensics

Grants and Residencies

Stanford MediaX Publish-on-Demand Competition, 2012

Canadian Internet Registration Authority Community Investment Program, 2015

Nvidia Research Hardware Grant, 2016

Recurse Center (Winter 2), 2021