

Luke Murphy, Software Engineer

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decentral1se: Free software consultancy

Self-employed | *Ongoing* | *Rotterdam, The Netherlands*

- [go-ssb](#) maintenance and community support ([Open Collective](#), [newsletter](#)).
- Development and launch of [Wet Signal Voice Gardens](#) ([announcement](#), [additional exhibition](#)).

Technologies: Go, Javascript, Debian system administration

Autonomic: Worker-owned technology co-operative

Co-initiator & worker-owner | *May 2019 - June 2023* | *Rotterdam, The Netherlands (remote)*

- Co-initiated [Co-op Cloud](#) and [Servers.coop](#)
- Supported the launch of [lumbung.space](#) as an artist owned & run digital platform for [Documenta 15](#).
- Core developer of [abra](#), a 15k LOC Go command-line tool designed for Co-op Cloud operators.

Technologies: Python, Go, Docker, Docker swarm, Bash, Ansible, Debian system administration.

Aptivate: Digital agency for international development

Director and worker-owner | *November 2017 - May 2019* | *The Netherlands (remote)*

- Launched a micro-insurance platform to serve an estimated 600,000+ farmers in Malawi and Zambia with Pula Advisors.
- Released several alpha versions of FollowItApp, an application designed to help victim-survivors of stalking record what's happening to them, in collaboration with Media Coop.
- Completed a zero downtime MediaWiki migration and CKAN system upgrade for MapAction.
- Daily mail server, Nagios monitoring and client backup infrastructure maintenance.

Technologies: AWS EC2, AWS RDS, AWS S3, Ansible Molecule, Ansible, Borgbackup, Borgmatic, Django REST Framework, Django, Dovecot, MySQL, Nagios, Postfix, PostgreSQL, Python, ReactJS.

Free Software Foundation Europe: charity that empowers users to control technology

Technical intern | *January 2017 - June 2017* | *Berlin, Germany*

- Analysis and report on existing technical infrastructure.
- Research and development for a new OAuth based authentication system for members.

Technologies: Ansible, Drone CI, Flask, PostgreSQL, Pytest, Python.

Noa Technologies: IoT bike fleet platform

Back-end developer | *December 2015 - July 2016* | *Berlin, Germany*

- Development and deployment of an authentication system for administration users.
- End-to-end design, development and release of a new task management system for bike mechanics.
- Daily management and maintenance of a Google Campus bike fleet operations with SaltStack configuration management.

Technologies: AWS DynamoDB, AWS Kinesis, AWS Lambda, AWS RDS, Django REST Framework, Django, Docker, PostgreSQL, Pytest, Python, SaltStack.

Tracelight: Premium network for fashion publishers

Back-end developer | *May 2015 - December 2015* | *Berlin, Germany*

- Implemented and released new stores feature.
- Refactored in-house widget metrics and test infrastructure.
- Increasing test coverage of existing codebase.

Technologies: Django REST Framework, Django, Nostest, PostgreSQL, Python.

Ammeon: Infrastructure services and solutions partner

Test Engineer | *February 2013 - January 2014* | *Dublin, Ireland*

- Implemented new test framework for coming 2.0 version of the product.
- Taught off-site engineers how to use the API to write their own tests.

Skills overview

- **Golang back-end development** (3+ years experience): Command-line tools (urfave, cobra), Peer to peer systems (libp2p), Command-line (text-based) interfaces (bubbletea), Container ecosystems (Docker).
- **Python back-end development** (10+ years experience): Django, Django REST Framework, Flask, AsyncIO, MyPy Typing, PostgreSQL, MySQL.
- **Infrastructure management** (8+ years experience): Amazon S3, EC2, Lambda, DynamoDB, RDS and Kinesis, Ansible Molecule, Ansible, Debian System Administration, Docker, Gitlab CI/CD, Heroku, Hetzner, Linode, SaltStack, Travis CI, Drone CI/CD, Woodpecker CI/CD.
- **System Administration** (8+ years experience): Borgbackup, Restic, Borgmatic, Debian based systems, Discourse, Docker, Docker-compose, Docker swarm, Dovecot, Gitea, Linux KVM, MailMan3, Mediawiki, Munin, Nagios, Nextcloud, Postfix, Rainloop, Wordpress.

Writing

- [Fedidrama: This Section is Non-normative, Pervasive Labour Union](#): Addresses the ActivityPub protocol in more detail, especially some of the criticism it faces for ambiguous specifications regarding issues of security, which results in privacy and trust concerns that AP developers have been trying to address.
- [Demystifying SSH, Homebrewserver.club](#): There is a need to demystify SSH. In this guide we aim to show how to setup an SSH client and server as well as discuss common issues and approaches for day to day use and troubleshooting.
- [Networks of One's Own: three takes on taking care, Varia](#): This publication is an occasion to revisit three very different projects that have been important for the emergence of Varia, and for its individual members.
- [NEoN Digital Reforms](#): The document proposes specific free software technologies that will fit our organisation's needs, sustainable hosting, and caring digital infrastructures, which help continue conversations on forming the choices we make in relation to tactical digital ethics.

Talks & workshops

- [State of the Co-op Cloud 2023](#): In this talk, we share an update on where we're at, how we got there and where we hope to go in 2023. If you're looking for an overview of the project without diving in to the technical weeds, then this might be for you.
- [Calm coding socials](#): A lowkey social hangout for those who like to write computer programs in the company of other people. If you're curious about coding, are looking for some inspiration, just wanna put your headphones on and hack, or otherwise, you are welcome to come by and hang out.
- [Push to Talk Partyline](#): We invite you to explore audio only, short range communications together. During a 3-day hands-on workshop we'll investigate license-free radio as a low-tech and low-power medium for keeping in touch with each other.
- [Relearn 2021](#): Relearn is a collective learning experiment with as many teachers as it has participants. It is motivated by the possibility to displace parameters of/for research, studying and learning.
- [CoTech Gathering: Ansible and Shared Infrastructure](#): Self-organised workshop and discussion around the use and re-use of infrastructure tooling within CoTech.

Open source

- git.coopcloud.tech/decentral1se: Personal repositories.
- github.com/decentral1se: Wider open source collaboration.

Education

University College Cork
Bachelor - Computer Science
2009-01-01 — 2013-01-01

Languages

- English (Native)
- Dutch (Intermediate, B1)

Interests

- **Low-tech sustainability**: Self-hosting, permacomputing.
- **Worker co-operation**: Non-hierarchical organising, consensus-based decision making, mediation and conflict resolution.
- **Politics of networking**: Community wireless, mesh, local-first, peer-to-peer systems, federation, internet decentralisation.