

Senan Kelly

4th year CPSSD student at Dublin City University, Ireland

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Education

Dublin City University

BSc. in Computational Problem Solving and Software Development

Dublin, Ireland

Sept 2016 — May 2020

- Aimed at applicants who can demonstrate prior programming experience
- Portfolio and technical interview required
- Achieved First Class Honours in all previous years

Experience

Arista Networks

Software Intern

Dublin, Ireland

June 2018 — Sept 2019

- Worked for 16 months full time as part of 3rd year INTRA placement
- Migrated metrics libraries for entire Go codebase
- Wrote and deployed internal metrics search service. Go backend, Vue frontend
- Wrote internal Go linter, making use of `ast` package
- Wrote Kubernetes deployments, Ansible playbooks, and Helm charts for internal analytics

Selected Projects

• ‘funk.pub’

[team of four](#)

Federated music social platform

Bachelor's thesis. Currently working on implementing the `last.fm` compatible, and federation APIs based on ActivityPub - with Fediverse integration (eg. Mastodon). Other features will include recommendation system, data visualisations, and mobile clients.

• ‘gonic’

[personal project](#)

Subsonic compatible music streaming server, written in Go, 120+ GitHub stars

Lightweight music streaming, user management and sessions, `last.fm` integration, transcoding, web interface. Compatible with applications for Android, iOS. Built with Go, `sqlite3`, and `gorilla` tools.

• ‘hedon’

[team of four](#)

Nightlife event aggregator

CPSSD2 year long project. Worked on Flask admin panel, RESTful API with Swagger.io, live chart data with websockets, PDF ticket generation, recommender system, and indoor positioning system - with Bluetooth beacons, calibration modes, distance estimation, trilateration techniques.

• ‘home server’

[personal project](#)

My personal home server. Debian 9, RAID 0 storage

Runs ~20 containerised services. Automatic subdomain-based reverse proxy with Traefik with wildcard cert and auto-renewing TLS. Cloudflare in front for DDOS protection, with DDNS client too. Unbound DNS server for home LAN. Wireguard VPN access. Daily snapshots, weekly cloud backups with `rclone`.

• ‘calllog’

[personal project](#)

GTK3 CallerID logging software using Hayes command set, with Point of sale integration

Uses modules like `pyserial`, `libphonenumber`, and Selenium for integration with cloudbased POS software. Hardware was a US Robotics 56k USB softmodem.

Skills

- **Software:** Go, Python 3, Java, Bash, SQL, Javascript, Vue.js
- **Ops:** Docker, Compose, Kubernetes, Ansible, Systemd, Traefik, NGINX

Free software contributions on GitHub

- Fish shell 14k ★ ✉
- Glances 14k ★ ✉
- Photoprism 4k ★ ✉
- StandardNotes 2k ★ ✉
- Vim 18k ★ ✉