

Dominic Connor

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Education

- B.Sc Dublin City University**, Computer Science Sept 2022 – present
- **Shell**: wrote a shell from scratch in C. Implementing batch mode, I/O redirection
 - **Pizza shop website**: A website allowing users to order and customise orders. Powered by Django and Bootstrap
 - **University API frontend**: An administration page for university API system, enabling management of students details, registering and removing users. Developed using React and TailwindCSS.
 - **OrchestraX**: A tool easing the use of various container orchestration systems (K8s, Nomad, Docker Swarm) written in Golang and Javascript

Experience

- Redbrick DCU** 🔗, Systems Administrator Mar 2023 – present
- Administered NixOS, Debian, and Ubuntu servers for 2,500+ users using Ansible, Consul and bash scripting.
 - Migrated legacy infrastructure to a modern container-based architecture using Nomad and Consul with Docker, raw_exec, exec, and qemu drivers, enhancing scalability and maintainability.
 - Implemented a "*bastion VM*" with a static IP address to handle ingress traffic through Traefik and gate-proxy, deployable across any client in the cluster.
 - Automated CI/CD deployments of various Redbrick projects, including a Discord bot and website, using GitHub Actions, Levant, Nomad, and Consul.
 - Automated configuration generation for web servers and proxies using Go templating with Consul-Template.
 - Rewrote internal API with type safety and error handling using FastAPI, improving performance and integration between services.
 - Automated backup processes with tools like Ansible and integrated telemetry using Prometheus and Grafana, improving system resilience and monitoring.
 - Provisioned and managed infrastructure with Ansible, ensuring consistency and reducing manual errors.
 - Provided 24/7 technical support to ensure 99% uptime and delivered technical documentation for new systems.
 - Awarded Individual Contribution to Society Life and Best Society Individual for my collaboration, leadership and problem solving skills for DCU societies.

- uPhone Sales & Repairs** 🔗, Repair Technician & Sales Assistant Aug 2022 – present
- Repaired a wide range of electronic devices, including smartphones, laptops, and game consoles.
 - Diagnosed hardware/software issues and performed microsoldering and board-level repairs.
 - Designed and upgraded the company's Shopify-based website using React Remix and TailwindCSS, enhancing user experience.
 - Handled customer service, sales, and inventory management.

Projects


OrchestraX - Master all Orchestration Platforms

- Project to enable the use of various container orchestration platforms (Kubernetes, Nomad, Docker Swarm)
- Allows for switching between these platforms, reducing vendor lock-in
- REST API and cli tool written in Golang and web frontend written in Javascript (React/Next.js)

Redbrick infrastructure

[GitHub](#) 🔗

- Migrating from an antiquated setup of ubuntu 14.04, NixOS 20 to a modern setup of Nomad/Consul/Docker on Debian

- Provisioning and management of infrastructure via Ansible.
- Documenting the process in for future admins [here](#) 

Personal Systems Unified Configuration

[GitHub](#) 

- Running Linux as my main OS
- Love to edit and optimise tools to improve my workflow
- Setup automated configurations with KVM,QEMU,libvirt,VFIO for a hardware accelerated Windows VM with a dedicated GPU for gaming and other Windows-specific tasks

Homelab

- Managing a homelab running a number of services (photo backup, mail server) and testing out technologies such as Kubernetes, Nomad, Container storage interface, Ansible among others.
- Used both for learning and leisure

Awards

Individual Contribution to Society Life: Awarded for my overhaul of Redbrick infrastructure, websites and services

Society Personality of the Year: Awarded for cross-specialism collaboration with Redbrick and DCU societies

AIB Build a Bank Digital Specialism Award: Working as part of a team, I helped to run and promote the school bank through incentives and digital strategies. I also helped to develop a relationship with the school canteen and build a framework for a prepaid card system for use in the school canteen

Young Innovator of the future: Working as part of a team, I helped to build an informative, modern website to educate young people on modern financial technologies including cryptocurrencies. This project won an award and funding from the Young Innovator of The Future competition ran by Prepaid Financial Services

Skills

Programming Languages: Python, Java, C, Go, JavaScript, R, Prolog, Bash, SQL

Web Development: HTML, CSS, JavaScript, React, Node.js, Django, TailwindCSS, Bootstrap, RESTful APIs, eleventy

DevOps: Docker, Kubernetes, Nomad, Consul, Ansible, NixOS, Linux, Git, GitHub/GitLab CI/CD, Jenkins, Nginx, Apache, Traefik, Shell Scripting, KVM/QEMU, libvirt

Databases: MySQL/MariaDB, PostgreSQL, SQLite, MongoDB, Redis

Tools: Git, GitHub, GitLab, Jira, Confluence, Trello, Slack, Docker, Postman, Insomnia, Wireshark, Grafana, Prometheus, VS Code, Vi/Vim/Neovim