Seán **Kelly**

SITE RELIABILITY ENGINEER & PROJECT MANAGER

+353 87 979 9045 | sean@override.online | Daxorinator

"Speed, Quality, Cost - Pick two."

Career History

Site Reliability Engineer & Project Manager
Grafton Digital LTD.

IMPLEMENTING DEVOPS PRACTICES THROUGH SITE RELIABILITY ENGINEERING
July 2022 - Current

- Led end-to-end project management including scoping, timeline development and quoting
- Directed design, development, and deployment for client projects including feedback sessions and final sign-off
- Overhauled Web Ops using CI/CD with GitHub, implemented Containerisation, APM, and Server Monitoring
- Accelerated Web Development team velocity using Agile SDLC - Responsible for Sprint Management & Planning with Jira
- Implementation of new QA, testing, and code management policies for Web Apps to shorten iteration time
- Responsible for Linux Web, Database and Mail server administration

Systems Engineering Consultant / Company Director
Project 42 Holdings LTD.

DELIVERING BESPOKE DEVOPS & SYSTEMS ENGINEERING SERVICES
Jan 2020 - Jan. 2023

- Deployment and configuration of Highly Available applications on managed Kubernetes clusters
- Configuration and management of Linux Virtual & Dedicated servers with Proxmox / Debian Server for customer services
- Architecture and deployment of networks, including hardware redundancy and network filtering
- Implementing DevOps solutions to improve SDLC & Infrastructure management, e.g. CI/CD, IaC, APM for clients infrastructure

Web Developer & System Administrator
Grafton Digital LTD.

DEVELOPING WEBSITES, MAINTAINING WEB AND EMAIL SERVERS & CUSTOMER TECHNICAL SUPPORT
June 2019 - Jan. 2021

- Managed proposals, design, development, and maintenance for client websites built with WordPress
- Performed Linux System Administration for Web & Mail Servers
- Managed Office365 and Google Workspace deployment for customers
- Delivered customer technical support & on-site hardware troubleshooting

Lead System Administrator
Sparked Host LLC.

DEVOPS TEAM LEAD & SYSTEM ADMINISTRATOR
April 2019 - Sept. 2020

- Led the System Administration Team through task sprints using Kanban
- Overhauled the existing infrastructure management through use of Proxmox, Ansible, and Terraform IaC
- Implemented Ansible playbook automation for server maintenance tasks across all servers
- Automated setup and deployment of new dedicated machines using Hetzner API and Ansible playbooks
- Implemented CI/CD, staging environments, APM, and analytics for Website, Billing Panel & Game Panel

Achievments

Joint Convention Director of Akumakon 2024 - raising €14,000 for Galway Autism Partnership

Chief System Administrator of CompSoc, leading a €13,000 infrastructure expansion project and network overhaul

Skills

- Software and Web Project Management w/ Agile SDLC, Sprint Management & Planning incl. Jira
- Project Scoping, Timeline Management, Project Review & Feedback Coordination
- DevOps Technologies incl. GitHub CI/CD, Kubernetes, Proxmox, Grafana + Prometheus monitoring + DataDog
- Networking - Switching & Routing incl. IPv4/GRE/IPSec/BGP/OVPN - VyOS & Juniper-like CLIs
- Web Server & Web App Management w/ cPanel, Plesk, DirectAdmin, NGINX, MySQL, PostgreSQL
- Linux System Administration of remote virtual & dedicated servers
- Python scripting for process automation, Java object-oriented programming
- Website Design, Development, and Maintenance using WordPress

Interests

- Running a home lab (Enterprise computing equipment in a personal training environment)

- Hosting & playing video games with online communities
- Hobbyist electronic & computer engineering, e.g. Homebrew computer builds, game development, Linux from Scratch
- Cookery and Baking; Playing Guitar; Volunteering IT Skills through CompSoc in University of Galway

Projects

3rd Year Project - HDLGen-ChatGPT
University of Galway

GITHUB.COM/HDLGEN-CHATGPT/HDLGEN-CHATGPT   *2023/2024*

HDLGen-ChatGPT is a Python-based application to facilitate rapid digital system design prototyping and test specification capture, and VHDL/Verilog code generation using ChatGPT 3.5 or similar text generation LLMs. HDLGen-ChatGPT can generate complete VHDL and Verilog test benches using a test table compiler to build test cases based on inputs and expected outputs. HDLGen-ChatGPT also automatically bootstraps Xilinx Vivado and Intel Quartus projects to enable project deployment to FPGAs. Part of this work was published as a part of the 34th International Workshop on Rapid System Prototyping, DOI: 10.1145/3625223.3649280

Akumakon - Joint Convention Director
University of Galway Anime & Manga Society

AKUMAKON.COM   *2023/2024*

Served as a Joint Convention Director for Akumakon 2024, a Japanese cultural convention and charity fundraiser event which raised €40,000 for Galway Autism Partnership, and served over 1500 guests across 3 days. Responsibilities of the Convention Director include Health and Safety Coordination with the Societies Office and H&S Officer, managing contracts and accounts payable/receivable with the Treasurer, and organising the volunteer timetable with the volunteer coordinators. Other responsibilities include opening and closing the convention premises each day, ensuring special guests are taken care of, and that each section of the convention runs smoothly throughout the weekend, including Panels Rooms, Trade Halls, and other aspects. The Convention Directors are also responsible for the handover of the convention to the next committee and debriefing the team after the event.

Education

BE& ME of Electronic & Computer Engineering
University of Galway

4TH YEAR STUDENT - COMPUTER SOCIETY CHIEF SYSTEM ADMINISTRATOR   *Sept. 2021 - Present*

BE + ME including Work Placement taking place over five years. The course teaches Electronic and Computer Engineering with an emphasis on the design of computer systems. The course is designed to be applicable in areas such as electronic system design, networking and distributed computing, telecommunications, and management information systems

CoderDojo Athenry
Clarin College, Athenry

PROGRAMMING + ELECTRONIC & COMPUTER ENGINEERING   *Sept. 2014 - May 2018*

4 Years of weekly sessions including Python, Unity & C#, JavaScript, and Electronics Hacking.

References available on request.