Thomas Daniel Galligan

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Software Engineer experienced in full-stack software development and containerization. Writing code used by government bodies and large multinationals.

Experience

Software Engineer
IBM ↗
Jun. 2023 — present
Java, Groovy, Python3, Kubernetes

- Spearheaded containerizing a new microservice, including CI/CD Jenkins pipelines to build, run unit tests, integration tests, and deploy the docker image to a private docker registry.
- Implemented metrics and observability for the new microservice which acted as a broker between SOAR and IBM's watsonx.ai API for SREs to monitor the microservice when deployed.
- Developed features, bug fixes, and fixed vulnerabilities. I also performed L3 support to solve customer issues with the product, leveraging my backend experience.

Software Engineer Intern
IBM ↗
Mar. 2022 — Sep. 2022
Java, ReactJS

- Resolved UI inconsistencies in the React codebase to enhance user experience.
- Led the creation of a new build infrastructure environment, reducing downtime and ensuring data integrity.
- Authored Ansible playbooks to deploy K3s clusters, streamlining build infrastructure processes.
- Implemented secrets management using HashiCorp Vault to secure sensitive data.

CoderDojo Leader
Cork Airport CoderDojo ↗
Sep. 2023 — present

- Responsible for running the CoderDojo in the IBM office in Cork,
- Teaching HTML, CSS, and JavaScript to kids. And teaching more complex web technologies such as React to older students.

Chairperson & SysAdmin
UCC Networking Society ↗
Nov. 2019 — Jun. 2023

- Spearheaded society operations, increasing membership and organizing key technical events.
- Drove a campaign to increase membership by giving students the resources to build a CV and portfolio to get a third-year work placement.
- Organized the second instalment of **Cork DevCon**, a tech-conference, attended by 200+ people.

Technical Skills

Languages: Golang, Java, JavaScript / TypeScript, Python, SQL (PostgreSQL/MySQL), HTML/CSS, Bash

Technologies: Docker, React, Flask, NextJS, VueJS, Express, FastAPI

Developer Tools: Git, GitHub, Ansible, Linux, Latex

Projects

### Timber — Collaboration Platform
github.com/timber-team/timber ↗
Go, TS, Redis

- Timber is a social networking platform that connects professionals and hobbyists for collaborative projects.
- Worked on the backend and frontend code to complete the project by a tight deadline.
- Implemented rigid authentication and authorization federated by OAuth2.0 backed by Google and GitHub, with session management using a read-through cache backed by Redis.

Tny.ie — Fast URL Shortener
github.com/tnyie ↗
Go, Postgres, VueJS

- Built a from-the-ground-up URL shortener using Golang as a backend ↗, with a VueJS frontend ↗ for managing links.
- Included analytics tracking, allowing users to see their link's traffic.
- Created a Chromium and Firefox browser extension ↗ to allow more ease-of-use when creating shortened links, allowing one-click link generation.

Education

BSc. Computer Science
University College Cork
2019-2023

- First-class honors Final Year Project focused on researching the performance of HTTP/3 (HTTP over QUIC) for video streaming, compared to other HTTP versions.
- Teaching assistant / Lab demonstrator for 1st & 2nd Year modules
- Awarded *Best Individual Award* for work done during my course, and contributions to the Society.