

# 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.
- Completed features, bug fixes, and vulnerability fixes for a large legacy Java application.

### Software Engineer Intern

[IBM](#) 

Mar. 2022 — Sep. 2022

Java, ReactJS

- Resolved UI inconsistencies in 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, JavaScript to kids, and 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 way of giving students the resources to build up a CV and portfolio with the aim of getting 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](https://github.com/timber-team/timber) 




Go, TS, Redis

- Timber is a social networking platform that connects professionals and hobbyists for collaborative projects.
- Worked on both the backend and frontend code in order 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](https://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, which would allow 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

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