

# THOMAS DANIEL GALLIGAN

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Software Engineer building production-grade backend and security-focused systems, shipping AI-driven features used by large enterprises and government clients.

## EXPERIENCE

**Software Engineer** Jun. 2023 — present  
[IBM](#)

- Initiated and led development of **watsonx.ai for SOAR Analysts**, enabling automated evidence assessment, report generation, and faster incident response for security teams.
- Designed an *Association-Rule*-based recommender for SOAR incidents, helping analysts act consistently by surfacing prior organization response patterns.
- 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.

**SWE Intern** Mar. 2022 — Sep. 2022  
[IBM](#)

- 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, and adopting secure secrets management using HashiCorp Vault.
- Resolved UI inconsistencies and SQL Deadlock bugs in the backend to improve product reliability.

**CoderDojo Leader** Sep. 2023 — present  
[Cork Airport CoderDojo](#)

- Responsible for running the CoderDojo in the IBM office in Cork,
- Teaching web technologies and Object-Oriented Python programming to kids.

**Chairperson, SysAdmin** Nov. 2019 — Jun. 2023  
[UCC Networking Society](#)

- Led society operations, organized major technical events, and grew membership by 30% through CV/portfolio workshops.
- Organized *Cork DevCon 2026* (>200 attendees).
- Improved reliability of core services by adding Grafana websocket alerts and a status page driven by GitHub Actions.

## EDUCATION

**BSc. Computer Science** 2019-2023  
University College Cork

- First-class honors Final Year Project — **EVALUATING PERFORMANCE OF HTTP/3 FOR VIDEO STREAMING: A COMPARATIVE STUDY WITH PREVIOUS VERSIONS OF HTTP**.
- Teaching assistant / Lab demonstrator for 1st & 2nd Year modules
- Awarded *Best Individual Award* for work done during my course, and contributions to the Society.

## 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 within 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 URL shortener in Go with analytics, Postgres storage, and a VueJS dashboard.
- Included analytics tracking, allowing users to see their link's traffic.
- Created a Chrome & Firefox extension for one-click link generation.

## TECHNICAL SKILLS

### Languages:

Go, Java, JavaScript/TypeScript, Python, SQL, HTML/CSS

### Technologies:

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

### Developer Tools:

Git, GitHub, Ansible, Linux, L<sup>A</sup>T<sub>E</sub>X