Thomas Daniel Galligan

🌐 galligan.dev | ✉ thomas@galligan.dev | in linkedin.com/in/gal1 | ⊙ github.com/gal

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

Experience

Software Engineer
IBM ↗
Jun. 2023 — present
Java, Python, TypeScript

- 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
IBM ↗
Mar. 2022 — Sep. 2022
Java, TypeScript, React, Ansible

- 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
Cork Airport CoderDojo ↗
Sep. 2023 — present

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

Chairperson, SysAdmin
UCC Networking Society
Nov. 2019 — Jun. 2023

- 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
University College Cork
2019-2023

- 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, LaTeX