

# THOMAS DANIEL GALLIGAN

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## EXPERIENCE

- IBM** Jun. 2023 – present  
*Software Engineer*  
Cork, Ireland
  - Developing and maintaining a RESTful API for a business-to-business cybersecurity product; CP4S Cases, leveraging Java and Google Guice
  - Designed and implemented scalable and secure API endpoints, utilizing industry best practices and adhering to security guidelines
  - Optimizing database queries and procedures to enhance system performance, leveraging PostgreSQL features such as prepared statements and views
- IBM** Mar. 2022 – Sep. 2022  
*Software Engineer Intern*  
Cork, Ireland
  - Fixed frontend bugs
  - Fixed backend bugs causing SQL DB deadlocks
  - Migrated from a paid subscription for Ansible Tower to a free, open-source alternative, saving the team €5,000/year

## PROJECTS

- Tny.ie** | *Go, Docker, VueJS, Typescript, PostgreSQL* Feb. 2021 – Jan. 2022
  - Developed a URL shortener application with a backend in Go, frontend in VueJS, and a browser extension.
  - Implemented an analytics dashboard to view traffic for each URL shortened.
  - Utilized Docker and PostgreSQL for easy deployment and management.
- Timber** | *Go, Docker, PostgreSQL, Typescript, React, Redis* Oct. 2021 – Nov. 2021
  - Collaborated on a team project during the third year of my university course.
  - Developed a web application for finding users with specific skills for a project using React, NextJS, and Go.
  - Implemented a session cache with Redis for improved performance.

## VOLUNTEERING

- Chairperson** Jun. 2022 – May. 2023  
*UCC Networking, Gaming, and Technology Society*  
Cork, Ireland
  - Led and managed the society, overseeing the planning and execution of events, and ensuring the society's overall success and growth.
  - Presided over all committee meetings, maintained membership records, and acted as the official representative of the society.
- SysAdmin** Nov. 2019 – Jun. 2022  
*UCC Networking, Gaming, and Technology Society*  
Cork, Ireland
  - Maintained the society's server infrastructure, ensuring its reliability and security.
  - Developed and maintained relevant software to support the society's activities, and delivered technical talks to members on various topics such as programming languages, cloud services, and emerging technologies.

## EDUCATION

- Bachelor of Science** Cork, Ireland  
*Second Class Honors in Computer Science University College Cork CK401*  
Sep. 2019 – May 2023

## AWARDS

- UCC STARS Award** Mar. 2023  
*University College Cork Societies Executive*  
Cork, Ireland
  - Awarded best individual based on work done, leadership, and teamwork skills as Chairperson of the Networking, Technology, and Gaming Society by the UCC Societies Executive

## PUBLICATIONS

- Bachelor of Science Academic Paper**  
*Evaluating Performance of HTTP/3 for Video Streaming: A Comparative Study with Previous Versions of HTTP*

## TECHNICAL SKILLS

- Languages:** Go/Golang, Javascript/Typescript, Java, Python, SQL (PostgreSQL/MySQL), HTML/CSS
- Technologies:** Docker, React, Flask, NextJS, VueJS, Express
- Developer Tools:** Git, GitHub, Ansible, Linux