

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 wrote 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

- Successfully resolved two critical frontend bugs, ensuring seamless user experience and preventing potential disruptions to customers' notification settings and automated processes.
- Mitigated a crucial backend bug, eliminating SQL deadlocks and enhancing system stability 100% of the time for that system state.
- Migrated from a paid subscription for Ansible Tower to a free, open-source alternative, saving the team €5,000 every year for the license

PROJECTS

Tny.ie | *Go, Docker, VueJS, Typescript, PostgreSQL*

Feb. 2021 – Jan. 2022

- Developed a URL shortener application with a backend in Go, a frontend in VueJS, and a browser extension to speed up link creation by 10x.
- Utilized Docker and PostgreSQL for easy deployment and management, saving approx 30 minutes of deployment time.

Timber | *Go, Docker, PostgreSQL, Typescript, React, Redis*

Oct. 2021 – Nov. 2021

- Developed a full-stack web app on a team of 5 using React, Next.js, and Go; designed a search and matching algorithm for users looking for other users with specific skills for a project.

VOLUNTEERING

Chairperson

Jun. 2022 – May. 2023

UCC Networking, Gaming, and Technology Society

Cork, Ireland

- Led and managed the Society, coaching and advising the planning and execution of events and ensuring the Society's overall success. This was done by revamping parts of the society enabling the growth of the Society by 300 members.

SysAdmin

Nov. 2019 – Jun. 2022

UCC Networking, Gaming, and Technology Society

Cork, Ireland

- Maintained the Society's server infrastructure, ensuring its reliability, and reducing system outages by 65% over the last year.

EDUCATION

Bachelor of Science

Cork, Ireland

Bachelor of Science in Computer Science

Sep. 2019 – May 2023

- Final Mark: Second Class Honors Grade 1
- Thesis: *Evaluating Performance of HTTP/3 for Video Streaming: A Comparative Study with Previous Versions of HTTP*

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

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, L^AT_EX