

# Thomas Daniel Galligan

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## EXPERIENCE

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- IBM** Jun. 2023 – present  
*Software Engineer* Cork, Ireland
- Developing and maintaining a RESTful API for a business-to-business cybersecurity product; IBM Security QRadar SOAR.
  - Designed and wrote scalable and secure API endpoints, utilizing industry best practices and adhering to security guidelines
- IBM** Mar. 2022 – Sep. 2022  
*Software Engineer Intern* Cork, Ireland
- Mitigated a crucial backend bug, eliminating SQL deadlocks and enhancing system stability.
  - Migrated from a paid subscription for Ansible Tower to a free, open-source alternative, minimizing the team's services costs.

## PROJECTS

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- 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 Chrome & Firefox browser extension to speed up link creation.
  - 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

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- Chairperson & SysAdmin** Jun. 2022 – May. 2023 — Nov. 2019 – Jun. 2022  
*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.
  - Organized large technical and gaming events, one such being the second instalment of Cork DevCon, a tech conference held in the UCC building focused on tech in Cork and the south of Ireland.
  - Maintained the Society's server infrastructure, ensuring its reliability, and reducing the number of system outages by 65% by optimizing and improving backup jobs.
- Senior Mentor** Feb. 2017 – Present  
*IBM Cork CoderDojo*
- Teaching students HTML, CSS, JavaScript and led project-focused teams work on full stack web applications.
  - Preparing to take over as Champion of the IBM Cork CoderDojo group, including administrative and technical responsibilities.

## EDUCATION

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- 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

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- 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, and Secretary of WARPCON, by the UCC Societies Executive

## TECHNICAL SKILLS

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**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<sup>A</sup>T<sub>E</sub>X