Gemma Tipper

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Education

University of Bath
BSc in Computer Science

Bath, UK
Sept. 2019–Jul. 2023

- · Degree classification: **First Class with honours**
- · Subjects covered include advanced algorithms and complexity, functional programming and parallel programming.
- · Dissertation topic: **Implementation and extension of the Functional Machine Calculus to support concurrency**

Experience

Citrix Systems
Software Engineering Intern

Remote, UK
Jul. 2021–Jun. 2022

- · Worked in the DevOps Core Tools team, improving **developer experience** across core systems including Jira, Kubernetes, MS Azure and Artifactory.
- · Developed the **cloud migration strategy** for on-premise Kubernetes to MS Azure over a full PI cycle as part of the Scaled Agile Framework (SAFe) for all engineering teams.
- · Authored several **automated solutions** for the Core Tools team in **Python** and **Bash**, including data logging for Kubernetes with Grafana visualisation.

Sure (Isle of Man) Limited
Automation and AI Report

Isle of Man
Aug. 2019

- · Individually researched, wrote and presented a report on **potential applications of AI** in the company's contact centre.
- · Created opportunities to improve efficiency by using AI techniques to automate common business processes.

Projects

Wirebrush
Personal website

Jun. 2023

- · Built a website from scratch using **Rust** in order to host online projects and a professional bio.
- · Started with a basic web server backend, then implemented HTML templates with the **Maud** crate for the frontend.
- · Created a CI pipeline using **GitHub Actions** to ensure production code status can be monitored at all times.

MEOWDY (University of Bath Wackathon 2022)
One of three group members

Bath, UK
Mar. 2022

- · Participated in a 24-hour **hackathon** run by the Women in Technology society.
- · Created a concept for an RPG game "MEOWDY" by learning and using the Rust game engine Bevy.
- · Presented to industry professionals, winning the prize for "Most Entertaining" project.

Awards and Achievements

2020	**Chair** of the Women in Technology society at the University of Bath
2019	Sure (Isle of Man) Ltd. **Women in STEM** Bursary
2018	Mansat scholarship to attend **United Space School** in Houston, TX
2017-2018	Silver, Bronze, and two Best in Year awards in Senior UKMT

Technical Skills

Programming	Rust, Python, Haskell, Bash, Java, C, HTML, JavaScript, SQL, Arduino C
Software	IntelliJ IDEA, PyCharm, CLion, LaTeX, Typst, GitHub, MS Office & Teams, Notion, Discord, Slack, Trello