Gemma Tipper

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Education

University of Bath
Bath, UK
BSc in Computer Science
Sept. 2019–Jul. 2023

- First Year overall mark: **78.7%**, Second Year overall mark: **72.7%**
- Provisional classification: 2:1, Predicted degree classification: **First** (Final mark delayed due to ongoing marking strike)
- 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
Remote, UK
Software Engineering Intern
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
Isle of Man
Automation and AI Report
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
Jun. 2023
Personal website

- 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)
Bath, UK
One of three group members
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