





# Ryan Gibb

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## EDUCATION

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**UNIVERSITY OF CAMBRIDGE** DOCTORATE OF PHILOSOPHY IN COMPUTER SCIENCE 2022 - present

- Working in the Systems Research Group supervised by Anil Madhavapeddy and Jon Crowcroft.

**UNIVERSITY OF CAMBRIDGE** MASTER OF PHILOSOPHY IN ADVANCED COMPUTER SCIENCE 2021 - 2022

- Awarded the ACS MPhil scholarship and a pass with distinction.
-  Dissertation: 'Spatial Name System'.

**UNIVERSITY OF ST ANDREWS** BACHELOR OF SCIENCE (HONOURS) COMPUTER SCIENCE 2017 - 2021

- 1<sup>st</sup> Class Honours in Computer Science.
-  Dissertation: 'Ubiquitous Communication for the Internet of Things'.
- John Honey Prize awarded for the best student in the Junior Honours class (3rd year). 2020
- Christopher Strachey Prize awarded for the best student in [CS2001](#). 2019
- Dean's List Award for exemplary academic achievement in every year.

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## WORK EXPERIENCE

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**TARIDES** RESEARCH INTERN Jul - Sep 2022

-   Created a framework for building MirageOS unikernels with Nix.

**CISCO** SOFTWARE ENGINEER INTERN Jun - Sep 2021

- Working on Cisco Defense Orchestrator.
- "Key contributor on a project to re-architect [the] MongoDB multi-tenancy solution."
- Overhauled the error handling for an Angular front end microapp.

**UNIVERSITY OF ST. ANDREWS** RESEARCH ASSISTANT Jun - Aug 2020

-  Designed, implemented, and benchmarked multi-core and cache efficient algorithms for high degree permutations in C and Rust.
- Resulted in a 64% faster parallelised algorithm for degrees of  $2^{32}$ .

**JP MORGAN CHASE & CO.** SOFTWARE ENGINEER INTERN Jun - Aug 2019

- Created a Message Recovery Service for an OTC Derivatives System.
- Used Spring, React, and Typescript; deployed on Cloud Foundry.
- Resulted in trade status update auditability and saved developer time.

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## VOLUNTARY POSITIONS

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**COMPUTER SCIENCE SCHOOL PRESIDENT** 2020 - 2021

- Ran a remote orientation week collaborating with the school and societies.
- Created a school-wide mentorship scheme with over 200 participants.
- Line managed 11 class reps.
- Chaired semesterly Student-Staff Consultative Committee meetings.

**ST ANDREWS COMPUTING SOCIETY TREASURER** 2019 - 2020

- Responsible for St. Andrews Computing Society's finances.
- Point of contact with sponsors for coordinating events.
- Organised 2 hackathons 'Hack the Bubble' and 'StacsHack'.