Ryan T Gibb

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EDUCATION

UNIVERSITY OF ST ANDREWS   2017 - 2021
BSc Hons Computer Science
- Dissertation: 'Ubiquitous Communication for the Internet of Things'. ↗
- 1st Class Honours.
- John Honey Prize.   2020
  Best student in the Junior Honours (3rd) year.
- Christopher Strachey Prize.   2019
  Best student in the core module of data structures and algorithms.
- Dean's List Award for exemplary academic achievement in every year.

NORTH BERWICK HIGH SCHOOL   2011 - 2017
- School prize for highest achievement in AH Maths, AH Computing Science, Higher Maths, and Higher Computing Science.

WORK EXPERIENCE

CISCO   June - Present
Software Engineer Intern
- Working on Cisco Defense Orchestrator.

UNIVERSITY OF ST. ANDREWS   Jun - Aug 2020
Undergraduate Research Assistant
- 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.   Jun - Aug 2019 (10 weeks)
Software Engineer Intern
- 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.

POSITIONS OF LEADERSHIP

SCHOOL PRESIDENT   Jul 2020 - Jul 2021
As president of the School of Computer Science: representing the student body; ran a remote orientation week collaborating with the school and student societies; created a school-wide mentorship scheme with over 200 participants, and line managing 11 class reps.

STACS TREASURER   May 2019 - May 2020
Responsible for St. Andrews Computing Society's finances (approximately £15k); communicating with sponsors; and organising events, including 2 hackathons called Hack the Bubble and StacsHack.

CLASS REP   Sep 2018 - May 2019
Represented my 2nd year class to solve problems in collaboration with the faculty and school president, as well as organising year wide social events.

SKILLS

- Computer Systems
  Distributed Systems
  Operating Systems
  Networking
- Communication
  Teamwork
  Leadership
- Unix Shell, Git, Vim.
- Data structures and algorithms.
- Agile, Scrum, JIRA, Jenkins.
- C, Python, Java, SQL, Rust, Node.js, Haskell, C#, LaTeX, Javascript (Node.js, React.js).

COMPETITIONS

STACSHACK V   ↗ 2019
- Created a tweet guessing web game 'Twitcher' in 24 hours.
- Won American Express's 'icebreaker challenge'.

HACK THE BURGH V   2019
- Created a text-to-speech and speech-to-text web app phone system 'HearMe' for the hearing-impaired in 24 hours.
- Won JP Morgan's 'empowering minority entrepreneurs' award.

PROJECTS

COLOUR SPACE COMPRESSION   Java
Uses the K-means clustering algorithm to compress the number of colours in an image.

IMAGE STEGANOGRAPHY   Python
Hides data (plaintext, images, or other files) in the least significant RGB bits of pixels in an image.

REFERENCES

Available on request.