

Roddy MacSween

Education

- 2016–2020 **University of Cambridge (Homerton College)**, *BA (Hons) & MEng Computer Science*
- Achieved BA (Hons) with a double 1st, awarded David Thompson prize.
 - Third year project on using computer vision and machine learning to detect deception in videos.
 - Now studying for MEng, with a focus on machine learning, NLP and theoretical computer science.
 - Master's project in computational linguistics on cognate detection.
- 2009–2016 **Roundhay School**, *Secondary education*
- Achieved 3 A*s at A-level (Maths, Further Maths, Physics).

Work experience

- June–August 2019 **corrux, Munich**, *Software engineering intern*
- Managed migration of core IoT data platform from PostgreSQL to InfluxDB.
 - Analysed data from industrial equipment to identify features associated with breakdowns.
 - Developed features and performed DevOps tasks for web application backend.
 - Technologies used: Python, Flask, InfluxDB
- June–August 2018 **Goldman Sachs, London**, *Summer analyst in technology*
- Managed migration of a legacy reconciliation system to a new codebase.
 - Developed features for the new application.
 - Deployed, tested and documented it in QA and production.
 - Designed new dashboard for the system.
 - Technologies used: Java, Groovy, Elasticsearch
 - Led the winning teams for intern competitive programming and CTF competitions.
- 2014–2015 **Upwork**, *Online freelancer*
- Performed freelance work such as developing web scrapers and system administration scripts.
 - Wrote the content for a Learn Python app which received over 1,000,000 downloads.

Open source

- scikit-learn ○ Contributed two bugfixes to version 0.22 and improved some documentation.
- OCaml ○ Author and maintainer of the `ppx_rapper` library.
○ Made various other minor contributions to the OCaml ecosystem.

Hackathons

- 2017 HaC ○ Part of the winning team.
- Game Gig ○ Designed, developed and composed music for a retro platform game in C++ where players completed levels by switching between classic characters.

Technical skills

- Proficient in Python, OCaml, Java.
- Varying experience with HTML/CSS/JavaScript, C#, SQL, C/C++, GLSL, SystemVerilog.
- Experienced with \LaTeX .

Other achievements

- Top 2.5% of forecasters in IARPA's Hybrid Forecasting Competition (Prescience group).
 - The top 2% in the predecessor Good Judgement Project were the subject of Philip Tetlock's book *Superforecasting*.
- ~1.9 million people reached on StackOverflow.