

# Sonny Cooper

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sonnycoop

## EDUCATION

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- **University of Bristol** 2022-date  
*Computer Science MEng* Average Percentage: 74
  - Relevant modules: Software Engineering Project (77), Imperative and Functional Programming (73), Object Oriented Programming and Algorithms 1 (76), Algorithms 2 (75)
  - Competed in the 2023 BrisHack 24-hour Hackathon in a team of 5
- **Norwich School** 2020-2022  
*A levels* Results: A\*A\*A\*A
  - Computer Science (A\*), Maths (A\*), Further Maths (A\*), Physics (A)
- **Norwich School** 2017-2020  
*GCSEs* Results: 9 subjects ranging 7-9

## PROJECTS

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- **C#:** Designed two large projects for end clients with one developed in a team of 5. These projects incorporated tools such as unit tests and CI/CD, along with frameworks such as .NET and the UI framework Avalonia
- **Python:** Created an ANPR gate system for a working site with a web server for the client to add users. This used libraries such as OpenCV, Matplotlib and Pytesseract to extract number plates and PHP with MySQL to alter these valid number plates in the database
- **Swift:** Developed an iOS app where a user could set a time per week variable for a task and work towards that goal. This implemented Realm to manage the database
- **C:** Built software which could convert SK files into images and run a lossless compression on the SK
- **Java:** As a pair, implemented a Scotland Yard Board game with AI bots that co-ordinated moves via the Monte Carlo Tree Search algorithm
- **Go:** As a pair, created a GOL simulation which could either utilize cores of the computer or AWS servers to concurrently render each move of the simulation

## KEY SKILLS

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- **Problem-Solving**
  - Developed an exhibition pre-build and setup in ExCel London with one other, creating the only round exhibition through locking in floor tiles to the walls frame to form curves
- **Time Management**
  - Up until recently, spent the past 7 years rowing 10 times a week alongside studies leading to better time management
  - Alongside first year studies, completed a Swift boot camp and read 5 books from the pragmatic bookshelf during second year studies to further develop knowledge of languages and software tools
- **Leadership and Communication**
  - Planned and directed a 24-hour walk for Help for Heroes, raising £500
  - During A-levels, volunteered as a coach on weekends to teach kids how to row

## INTERESTS

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- **C2 World's Longest Tandem Row:** 7 days straight and over 1,100,000m 2020
- **Rowed at Henley Royal Regatta:** Represented both school and university 2021-2023