

# Rajit Banerjee

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## EDUCATION

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### University College Dublin

Dublin, Ireland

BSc (Hons.) Computer Science with Data Science

Sep. 2018 – Jun. 2022 (Expected)

- **GPA:** 4.11/4.20 (First Class Honours)
- **Coursework:** Data Structures, Algorithms, Introduction to AI, Programming for Big Data, Databases & Information Systems, Business Analytics, Software Engineering I & II, Linear Algebra II, Social Entrepreneurship
- **Honours and Awards:** UCD Ad Astra Academic Scholarship, UCD Global Undergraduate Scholarship, BSc Computer Science Scholarship (Stage 2, Stage 3), Insight Centre Research Scholarship, UCD Embark Award

## TECHNICAL SKILLS

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**Languages:** Python, Java, Go, SQL (MySQL, BigQuery), HTML/CSS, C, Scheme (Racket), R

**Tools:** Git, Docker, Agile (Scrum, Kanban), Linux/Shell, MS Excel, Tableau, Vim, VS Code, IntelliJ IDEA

**Certificates:** Virtual Internships (KPMG (Data Analytics), JPMorgan Chase & Co. (Software Engineering)), Kaggle (Advanced SQL, Intro to Machine Learning, Data Visualization), HackerRank (Rest API, Python, Java)

## WORK EXPERIENCE

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### Insight SFI Research Centre for Data Analytics

Dublin, Ireland

Research Intern | Tools: Python, OpenCV, Docker, Bash

Jun. – Aug. 2020

- Project (human body pose estimation): Performed experiments with multiple pose estimation models to estimate the body keypoints of novice athletes (runners) using pre-recorded input videos.
- Designed Bash scripts and Docker containers to automate video processing on a remote server.
- Analysed time-series data and computed a variety of body pose angles from video frames to assist runners with maintaining optimal form and posture.

### PRM Fincon Services Pvt. Ltd.

Kolkata, India

Python Development Intern | Tools: Python, OpenCV, Tesseract OCR, Camelot

Jun. – Aug. 2019

- Project (data extraction from financial reports): Refactored and optimised code to extract tabular data (balance sheets, income statements) by applying various image processing techniques to PDF pages.

## PROJECTS

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### Scripts | Python, Bash

Jul. 2020 – Present

- A collection of Bash and Python scripts to simplify a variety of day-to-day tasks, including merging, encrypting, modifying PDFs; quick installations for utilities; shortcuts for common terminal commands, and so on.

### Scrabble | Java, JavaFX, JUnit, Scrum

Jan. – May 2020

- Designed the game logic, GUI and bot, in a team of 3, using Java, JavaFX (GUI) and JUnit (testing).
- Followed Agile (Scrum) methodology, acting as the Scrum Master for multiple sprints.

### Investment Portfolio Optimisation | Microsoft Excel

Mar. – Apr. 2020

- Modelled the stock price behaviour of 8 companies and optimised a two-week investment strategy with 82% accuracy, using integer linear programming, regression and volume risk analysis.

## EXTRACURRICULAR

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- **Student Ambassador:** UCD spokesperson, representative and point of contact for prospective students.
- **Class Representative:** elected representative to the UCD Students' Union for Computer Science students.
- **Computer Science Peer Mentor:** advisor to 10 first-year Computer Science students.
- **CS Sparks:** coding workshop facilitator for students from DEIS schools in their Transition Year.
- **Photography:** keen interest in nature, street and event photography; active member of Photography Club.