Rajit Banerjee

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EDUCATION

University College Dublin   Sep. 2018 – May 2022 (Expected)
BSc (Hons.) Computer Science with Data Science   *Dublin, Ireland*

- **Current GPA:** 4.18/4.20 (First Class Honours)
- **Relevant Coursework:** Data Structures, Algorithms, Distributed Systems, Secure Software Engineering, Machine Learning, Programming for Big Data, Databases & Information Systems, Cloud Computing, Data Mining, Linear Algebra II, Business Analytics, 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

Languages & Frameworks: Python, Java, TypeScript, Node.js, React.js, Express.js, Bash, Go, C
Deployment, Cloud & Version Control: AWS, Docker, Git
Databases & Big Data: MySQL, DynamoDB, MongoDB, Apache Spark

WORK EXPERIENCE

Amazon Web Services   Mar. 2021 – Aug. 2021
Software Development Engineer Intern | *AWS, TypeScript, Node.js/Express.js, React.js*   *Dublin, Ireland*

- Project (campaign automation and management): Designed and implemented a campaign automation tool for Amazon Enterprise Engineering (Identity and Authentication).
- Integrated the campaign manager with Amazon's ticketing system to minimise human error and communication time during campaigns with over 5000 direct customers.
- Developed a Node+Express back-end API with React front-end components, following microservice architecture.
- Built and deployed infrastructure securely with AWS services including Lambda (serverless), DynamoDB, S3, StepFunctions, CloudWatch, and so on.

Insight SFI Research Centre for Data Analytics   Jun. 2020 – Aug. 2020
Research Intern | *Python, OpenCV, Docker, Bash*   *Dublin, Ireland*

- 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.   Jun. 2019 – Aug. 2019
Python Development Intern | *Python, OpenCV, Tesseract OCR, Camelot*   *Kolkata, India*

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

EXTRACURRICULAR

- **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 from 2019 to 2021.
- **Computer Science Peer Mentor**: advisor to 10 first-year Computer Science students.
- **UCD Student Societies**: NetSoc (Internet and Computer Science Society), DataSoc (Data Science Society), ISS (International Students' Society).
- **CS Sparks**: coding workshop facilitator for students from DEIS schools in their Transition Year.