

# Rahulkumar Rakeshkumar Rai

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## Education & Qualifications:

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### University of Sheffield

Sept 2018 - June 2022

BEng Software Engineering with a Year in Industry - 1<sup>st</sup> & 2<sup>nd</sup> Year First Class

### A Levels - International School of Seychelles

Sept 2016 - June 2018

Mathematics (A\*), Physics (A\*), Business Studies (A)

## Work Experience & Skills:

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### Technical:

#### 1. Year in Industry at Toyota Great Britain:

- Developed bespoke applications and automation tasks with Microsoft PowerApps and Power Automate.
- Designed new Toyota Template for application UI & UX.
- Assisted teams across the business to convert their daily activities and business process online to combat the lockdown rules for the pandemic with the help of Office 365 Tools.
- Used SCRUM strategy to monitor and complete tasks within deadlines.
- Built new reports with Microsoft Power BI to improve business intelligence.
- Had regular meetings with clients, understanding requirements/feedback.
- Wrote Documentation and User Guides for handover process.

#### 2. Web Developer for Masters' students in the School of Architecture:

- Designed and built a 'Neighbourhood Review' website system with Python Django and PostgreSQL using a Model View Template (MVT) design pattern.
- Built the website in 2 ½ weeks, used agile development to speed up progress.
- The website included a login system, dynamic page designs based on user states, user-friendly interface, and documentation for handover process.

#### 3. Python Mentor & Head of Customer Service for Code Creators:

- Worked as a mentor for students learning Python, helping them practice the language.
- Worked with an interdisciplinary team to deliver an 8 week-long Python course for beginners to learn the language.
- Headed the Customer Service at Code Creators, a social enterprise.

#### 4. Back/Front-End developer for Attendance Monitoring System:

- Used HTML5 & CSS and JavaScript to build an interactive and appealing website.
- Used Ruby and MySQL for backend development of client's software
- Worked with Git to efficiently build solution in a group of 6.

#### 5. Java/Object-Oriented Programmer:

- Used Java extensively to program a Lego Robot to use its sensors and motors to follow a trail.
- Built a 3D Space Museum with Java OpenGL to build the graphics engine from scratch.
- Built a Library System for submitting, reviewing, and publishing articles made with UML diagrams for business model, database, and user interface.

## **Transferable:**

### **6. Leadership:**

- Elected as Head Boy in high school, worked with different council leaders and staff to resolve short term and long-term issues.
- As team leader in Global Engineering Project, introduced sub-teams to better divide work evenly across the group to complete presentation in time for the next day.

### **7. Teamwork:**

- Worked with an interdisciplinary team to build a software solution that assists Self-Help groups in Tamil Nadu manage their finances for Global Engineering Challenge.
- Worked with Enactus Code Creators, to run a social enterprise to teach people how to code in Python.

### **8. Adaptability:**

- Decided to start a new project at Hack Sheffield 5 when my team decided to quit. Had to rebuild a strategy alone to come up with something new in less time to present the next day.
- Readapted storyboard while making a Barista/Cafe promotional video in a team, to work with the short videos that we filmed.

### **9. Communication:**

- Strong interpersonal skills because of interacting with plenty of students while working as a University Mentor for new students and as a helper at Code Creators teaching Python.
- Excellent communication skills as being Head of Customer Service at Code Creators delivering friendly interchanges through email or face-to-face discourse.

## **Extracurricular:**

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### **1. Academic Rep:**

- Listened to and understood issues raised by students on the course, using a variety of approaches.
- Negotiated with staff about these issues to resolve them in some way.

### **2. Filming Course:**

- Worked with a professional videographer and a filming crew of 8 other students for 2 weeks to film and produce 2 professional short films:
  - School Promotional Video: video promoting our school and its achievement, students, and other activities.
  - Barista/Cafe Video: video showcasing an ordinary day in the life of a barista and coffee shop.
- Developed communication and video editing skills using Adobe Premiere Pro to edit all videos/audios.
- Appreciated the effort needed in team and task management plus delegation.