Yashvini Shukla

| yashvini.shukla@nottingham.ac.uk | linkedin.com/in/yashvini | www.yashvini.com | v. Dec 2022

About

I am interested in applying Big Data Analytics, Machine learning and programming to informing decisions affecting the world.

Skills & Languages

Advanced, Intermediate, *Nascent*

HEC HMS	**ArcGIS**
GSA, Etabs	AutoCAD
HTML/CSS	MATLAB
Aimsun	Python

English, Hindi, **Gujarati**, *Swahili*

Awards/Honours

Dean's List: 3.78 GPA (2020)

RPI Fall Semester 2019

Reference: Dr. Daniel C. Lander

landed2@rpi.edu

First Prize winner of UCLE Hackathon 2020;

Fast tracked to an internship with Kano Computing to make computing more accessible to children.

Mayor's Entrepreneur Competition Finalist

Designed a Reusable Cup Vending machine system (CupMonkey) which was chosen as 1 of the 10 finalists out of over 400 entries.

UCL Business Game

Won 3rd place in and startup entrepreneurship challenge.

IGCSE – 7 A*, 2 A s

IBDP – 38 points

Hobbies & Projects

- Cycling, music mixing and playing,
- Managing 2 sustainability themed social media pages with 800 likes+
- Freelib - A book –exchange website.
- Campaigns Officer with UCL Vegan and Vegetarian Society on a plan to make UCL have plant-based foods
- Blockchain and web3 applications.
- Involved Open Cages UK, Humane League, UCL Global Health Society.
- Python Fundamentals course

Education

University of Nottingham **Sep 22 – June 25**

1 Year of an MRes programme in Smart Cities, Urban and Infrastructure Resilience, Spatially Informed Mobility, Spatially Engineered Energy Systems, Long Term Sustainable Spatial Planning, Multi-Scale Structural Monitoring, Social Inclusion and Healthy Living, Translation to Global Challenges. Followed by a 3 year PhD.

University College London **Sep 17 – June 21**

MEng Civil and Environmental Engineering with Year Abroad (Rensselaer Polytechnic Institute, NY, USA), Specialist modules in Connected Systems, Numerical Analysis & Programming for Engineers, Spatio-Temporal Analytics & Big Data Mining, Hydrology and Hydraulics, Dynamics of Soils and Foundations, Geo-environmental Engineering.

Research Experience

Fluids Undergraduate Researcher| Rensselaer Polytechnic **Sep 19 –Aug 20**
Languages/Frameworks: MATLAB with PIVMAT (Particle Image Velocimetry) addon
- Studying wake formation and shear layer in building under Dr. Daniel C. Lander, a leading researcher in shear layer thickness studies around bluff bodies.

Sustainability Researcher | Integrated Design Project **Sep 20 – Dec 20**
LEED, BREEAM specification criteria research
- Building a hospital in Hounslow, London with the latest sustainability credentials.
- Designing a Net Zero Carbon plan for a Translational Biomedical Centre.

Seismic Structures designer| MEng Civil Engineering **Sep 20 – Dec 20**
Languages/Frameworks: ETABS Structural analysis software
- Building a seismically safe and active office space in Norcia, Italy
- Using Eurocode 8 to optimize design for a column design.

Renewable Energy Research| EcoNomad Solutions **Oct 18 – Nov 20**
- UCL Startup by Dr. Ian Adler where I learnt about ongoing research in making EcoNomad's solar pumps and biogas digesters in UCL's Pamela facility, preparing pitching idea for RAEng, London.

Geochronology Lab volunteer |UCL Geography Dept. **Sept – 20 (ongoing)**
- Learning how to use Python in licenced Zeiss SEM microscope in dating East African rock samples to create templates for the automated analysing of slides

Industry Experience

Delay Analyst | Kroll   **Aug 21 - Current**
- Analysing thousands of documents to forensically investigate delay claims
- Use data analysis tools like python, VBA and excel to understand and heighten understanding of individual projects and cases.
- Writing and presenting quality reports summarising findings to inform the arbitration process.

Summer Internship | Beale Halai   **Sep 20**
- Surveying and EDM instrument checks on a 3 storey commercial/residential unit.
- Monitoring cracks and making on-site reports.
- Quality checking steel and concrete works done by the contractors on site.

Teaching Assistant and Member | People Power **Jan 18 – Sep 19**
- Conducted 2 workshops about solar panels and wind power in 2 schools around London. Worked with different engineers to produce a working lesson plan to teach design, development and other technical skills to children.

Engineering Designer | Engineers Without Borders, USA **Sep 19 – Present**
- Designing a plastic water tank with a concrete foundation for a trip in Nicaragua to take place in March 2020 , corresponded with the lead project Engineer for quality checks.

Engineer - UCL Mars Rover and Lunar Rover Team **Oct 18 – Mar 19**
- Finding optimal fuel for the rocket design in combustion chamber team.
- Writing the report/entry into the Europe wide Mars Competition.