

# RIDHWANUL HAQUE

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## EDUCATION

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**King's College London - BSc Computer Science with Intelligent Systems** **Sept 19 – Jun 22, London**

- Expected 1<sup>st</sup> Class (84).
- Modules: Programming Practices (81), Data Structures (96), Software Engineering (78), Practical Experiences.

**Earth House Alternative** **Jun 14 – Jun 18, Dhaka**

- IAL – A\* in Mathematics, A\* in Chemistry, A in Physics.
- IGCSE – A\* in Math, Pure Math, ICT, Physics & Chemistry, A in Economics & Bengali.

## EXPERIENCES

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**KCL Machine Learning – President** **Jul 20 – Present, London**

- Organized workshops and events virtually by collaborating with some of the largest societies here.
- Led projects related to machine learning for providing hands on experience to students.

**Zultan – Full Stack Developer & Co-Founder** **Jan 19 – Sept 19, Dhaka**

*Zultan connects shops and customers online, giving shops virtual place to increase sales.*

- Developed & deployed Django & React web app on Heroku with the team of 4.
- Compressed image sizes to KB from MB for faster loading from AWS S3 using Python.

**Nourish Poultry & Hatchery Ltd. – Data Analyst Intern** **Oct 18 – Jul 19, Dhaka**

- Analyzed procurement and sales data to identify correlated factors leading to higher revenue generation.
- Improved speed of work by automating analysis and data gathering work using NumPy and pandas.

**FOSSASIA – Open Source Contributor (Student Member)** **Nov 16 – Jan 17, Dhaka**

- Improved localization & UI of Open Event's android app by adding Bengali and fixing Tab Layout.
- Awarded finalist in GCI 2016 for completing over 40 significant tasks.

## ACHIEVEMENTS

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**Credit Suisse's Global Coding Challenge** **2019**  
Ranked top 20 over 1000 participants in UK.

**Scholastica Inter-school Informatics Olympiad** **2018**  
Achieved 1st place amongst 100s.

**BACS High School Programming Contest** **2018**  
Awarded 5th place regionally in Dhaka over 100s.

**Bangladesh Olympiad in Informatics** **2018**  
Ranked 10th nationally from selected 85 participants.

**Google Code-in** **2016**  
One of the 85 finalists out of over 1300 students.

**International Assessments for Schools** **2014**  
Gold medalist in computer skills as country topper.

## PROJECTS

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**Marathon Draw, Group Work** **2020**

- Built a web based multiplayer Pictionary game where AI guesses using Python and JS with a team of 5.
- Trained a classification model with over 75% accuracy using Keras on a subset of Quickdraw's dataset.

**Automated Flappy Bird, Individual Work** **2020**

- Implemented Q-learning & Genetic Algorithm using NumPy to train a Pygame bot.
- Both algorithms led to bots that scored over 500 points which is 5 times greater than my average score.

**Aggregate Sieve Analysis, Individual Work** **2019**

- Reduced the time by almost 1/3 for determining quality factors of sand by creating an android app using Java.
- Visualized the measured sieve weights graphically by drawing logarithmic scaled graphs in the app.

**Spark, Group Work** **2018**

- Led team of 5 developers to build a crowdfunding platform using Django
- Applied agile project management using GitHub features to reduce conflict and assign tasks evenly amongst us.

**Top Skills:** Python, Django, Web Development, Machine Learning, Deep Learning, Reinforcement Learning, PyTorch

**Intermediate:** Java, JavaScript, React, Git, Android Dev, SQL, Heroku **Beginner:** DevOps, AWS, C/C++, Keras

**Interests:** Educating students with difficulties, E-Learning, Nutrition, Religious Studies