

Imran Ahmed

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EDUCATION

University of Cambridge, Gonville & Caius College 2018 (Expected)

Candidate for BA and Masters in Information & Computer Engineering '18

1st Year Classification: **First Class**, 2nd Year Classification: **First Class**, MIT GPA: **5.0/5.0**

Master's Project: Using Machine Learning to diagnose lung diseases based on sounds from stethoscopes

Massachusetts Institute of Technology 2016 – 2017

Cambridge-MIT exchange student concentrating in Computer Science

EXPERIENCE

Vivacity Labs, London: (Computer Vision and Machine Learning Start-up) – Product Manager Intern June '17 – Sept. '17

- Managed the design and development of a mobile transport app ("MotionMap") to commercialise the world's largest city-wide smart-sensor deployment in Milton Keynes, UK. Expected uptake is ~50,000 users.
- Led the creation of internal tools to reduce time spent manually annotating facilities within cities by more than five-fold.
- Facilitated the installation of our sensor network by writing algorithms to help lower installation costs by > £50,000.

Interactive Robotics Lab, MIT: (Robotics Research Group) – Undergraduate Researcher Sept. '16 – June '17

- Developed an astronaut detection system for the International Space Station as part of a NASA research project at MIT.
- This will be implemented on an autonomous robot ("Astrobee") which will be deployed on the ISS by 2018.

Vivacity Labs, London: (Computer Vision and Machine Learning Start-up) – Software Developer Intern June – Aug. '16

- Upgraded an outdated machine learning toolkit to give a 300% increase in training speed.
- Designed an algorithm to optimise a neural network by automatically identifying incorrect output for further retraining and fine-tuning. This automated what was previously a time-consuming manual task.

Cambridge University Eco Racing, Cambridge UK: (Solar Vehicle Development) – Business Manager Oct. '15 – June '16

- Led a 10-person team to raise funds for this student-run organisation with an operating budget in excess of £1m.
- Overhauled the team's former sponsorship structure and implemented a formalised strategy to facilitate fundraising.
- Sourced funds to employ a team of full-time students which allowed us to improve the quality of our vehicle design.

RECENT EXTRACURRICULAR PROJECTS

Hackbridge.io: <https://hackbridge.io> Jul. '17 – Present

- Launched a student organisation to foster an undergraduate 'maker' environment at Cambridge University by organising weekly events to encourage students to work together on innovative side-projects/research in their spare time.
- Working to both raise funds for student resources and invite industry-leading speakers to speak at Cambridge.

Pure Interaction Sept. '17 – Present

- Created software to allow users to browse and interact with the web with just their gaze, facial expression and voice.
- Our team won the Microsoft Prize and also placed in the top 10 from over 200 competing teams at HackMIT. We are rebuilding and improving our work with better ML/CV techniques as part of a submission to the Microsoft Imagine Cup.

SpatialRL Jan. '17

- Created a novel platform to facilitate the training of Reinforcement-Learning agents using Unity and SpatialOS.
- Our team was awarded the SpatialOS Prize by Improbable (a cloud-based simulation company) at the event.

Facebook Global Hackathon Finals: <http://ylgh.github.io> Nov. '16

- Created an algorithm to compress educational videos by 100x to reduce the data cost of accessing online education.
- Our team received a prize and we productised and donated our work to DotLearn, an MIT-based education startup..

AWARDS AND ACHIEVEMENTS

2017 – Runners-Up, RAEng Future of Engineering Prize: A national prize for engineers who display entrepreneurial talent.

2015 & 2016 – Scholarships to Caius College, Cambridge: Awarded scholarships for my performance in my examinations.

2016 – RAEng Engineering Leaders Scholarship: Awarded a £5,000 scholarship for demonstrating strong leadership potential.

2014 – ARM Prize: Awarded team prize for the best robot in a competition for 1st year Cambridge Engineers.