

# SATYARTH MISHRA SHARMA

Selwyn College, Cambridge CB3 9DQ

✉ mail@satyarth.me | sm966@cam.ac.uk | ☎ +44 7784 112966

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## EDUCATION

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### University of Cambridge

Cambridge, UK

B.A. in Natural Sciences

October 2012 - June 2015

- Part IB Natural Sciences (Physical)  
Subjects: Physics A, Physics B, Mathematics
- Part IA Natural Sciences (Physical): Class 2:1  
Subjects: Physics, Mathematics, Materials Science, Computer Science

### Embassy of India School, Moscow

Moscow, Russia

- All India Senior School Certificate Examination  
Subjects: Mathematics (99%), Physics (95%), Chemistry (91%), Computer Science (80%)  
March 2012
- All India Senior Secondary Examination  
Subjects: Mathematics, Science and Technology, Social Sciences, Russian, English (94% overall)  
March 2010

## WORK EXPERIENCE

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### Raspberry Pi Foundation

Computer Laboratory, Cambridge, UK

*Undergraduate Research Student*

June - September 2014

Involved in developing a range of new programming tools and application demonstrations to help bring Raspberry Pi to new audiences. Designed and wrote a tutorial for a low-cost Raspberry Pi based acoustic tap location system. This involved programming in Python and C to interface the Raspberry Pi with low-level components such as analogue-to-digital converters, working with hardware and signal processing.

### Institute of Astronomy

Cambridge, UK

*Undergraduate Research Student*

June - September 2014

Used  $N$ -body simulations to characterise how the orbits of small bodies change after close encounters with a planet in a statistical fashion. Developed prescriptions for scattering in systems with multiple planets and for other relevant dynamics (in particular, galactic tides and perturbations from passing stars).

### Student Worker

Cambridge, UK

- Selwyn Snowball 2012
- Emmanuel College May Ball 2013
- Selwyn Snowball 2013

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## UNIVERSITY SOCIETIES

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### Cambridge University Physics Society (CUPS)

*Chair*

2014-2015

In charge of running the society. Events organized include 18 talks by academics from across the UK and Europe, social events, excursions, and a careers conference.

*General member*

2013-2014

### Cambridge University Computing and Technology Society (CUCaTS)

*External officer*

2014-2015

Responsible for liaising with sponsors to secure funds for the running of the society. Also set up collaborations with other societies and assisted with series of free programming workshops.

*Events officer*

2013-2014

Responsible for organizing events such as talks from academia and industry, pub meets, a varsity paintball match and the society's annual Puzzlehunt: a 24 hour team-based puzzle solving challenge.

## RELEVANT SKILLS

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### Programming and Computing

- Experienced in C++, Python, Java and MATLAB.
- Basic knowledge of ML, Haskell, R, Lua and Mathematica.
- Basic knowledge of HTML, CSS and JavaScript.
- Familiar with standard spreadsheet and word processing packages as well as L<sup>A</sup>T<sub>E</sub>X, source control systems (Git, Mercurial).
- Comfortable in GNU/Linux and Microsoft Windows environments.

### Languages

Fluent in English, Hindi and Russian.

## REFERENCES

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*Available upon request.*