

ABIR BHUSHAN

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EDUCATION

University College London (UCL) Computer Science (B.Sc) Department of Engineering	<i>September 2018 - June 2021</i>
The British School, New Delhi International Baccalaureate (IB) 41 points (7-7-7 in Math HL, Computer Science HL and Economics SL) 256 UCAS points	<i>August 2016 - May 2018</i>
Step By Step School, Noida International General Certificate of Secondary Education (IGCSE) 8 subjects: 8 A*s	<i>August 2010 - May 2016</i>

EXPERIENCE

Procter & Gamble (P&G), New Delhi <i>I.T Data Analyst Intern</i> <ul style="list-style-type: none">• Insight internship into data analysis and data visualisation• Gained hands-on experience in analysing quantitative financial data and in creating meaningful reports, using Python and SQL• Last 5 days were part of an insight week into the company's use of Machine Learning algorithms in its data mining activities	<i>July - September 2018</i>
Center for Science and Environment, New Delhi <i>Intern Front-end Web Developer</i> <ul style="list-style-type: none">• Designed and developed responsive webpages in HTML5, CSS3, and JavaScript: the most important of which were their weekly online newsletters• Attended divisional meetings to discuss requirements and project progress and was also responsible for presenting website prototypes to the head of the department	<i>July - September 2016</i>

PROJECTS

A Billing and Invoicing desktop application

I worked in an agile (Scrum) team of seven software engineers to build a software for the uniform shop at the British Embassy School, New Delhi. The application was primarily written in Java using an object-oriented approach and a model-view-controller (MVC) UI design pattern. Its main functions included, generating invoices, recording inventory data (using SQL databases), along with providing added support for sales analysis by generating reports containing a multitude of metrics (like total revenue, revenue by product, growth rate, etc.)

A Tetris auto-player A.I (Project code available on GitHub)

I redesigned the classic retro Tetris game- changing its GUI and some of its gameplay- and wrote a Genetic Algorithm for an auto-player that when finished had an average score of over five million and an average game-time of 92 minutes.

EXTRACURRICULAR

UCL Ramsay Hall and Ian Baker House

October 2018 - June 2019

President

- Representing the interests of the biggest student hall in UCL- 500 residents at any point in time- to the students union (on issues such as rent reductions, food quality, community events etc.)
- Chairing the hall committee and making decisions about any changes to living, along with organising hall events and allocating budgets

UCL Artificial Intelligence Society

October 2018 - March 2019

First-year representative (Vice-President elect for the next academic year)

- Was responsible for giving talks to first-year students about the myths of AI: informing them about its true applications and benefits to society
- Involved in a variety of projects and tutorials: recently ran a series of Introduction to Python tutorials that gave a strong foundation to over a 100 of our members in the basic and advanced (like OOP) topics of the language

UCL Technology Society

October 2018 - November 2018

Projects Officer

- Conducted HTML, CSS, and JavaScript tutorials, as part of the society's three week *Introduction to web-design* project, which allowed members to understand the basic workings of the web's front-end languages

ACADEMIC ACHIEVEMENTS

United Kingdom Mathematics Trust (UKMT) Senior Mathematics Challenge

Gold Medal (2016 and 2017)

SAT

1560/1600 in Composite and 800/800 in Math Level-2

PROGRAMMING SKILLS

- **Programming Languages:** Java, Python, C, JavaScript, SQL
-- with 10,000+ lines of code or actual project experience
- **Tools and Technologies:** Git, Maven, HTML5, CSS3, MongoDB

MISCELLANEOUS

Languages Spoken: English, Hindi (native languages) and French (limited working proficiency)

Strengths and Cognitive Traits: Focus, Achiever, Futuristic, Learner, Competitive

(tested by Gallup's *CliftonStrengths* test for students)

Subjects taken in sixth-form: Mathematics, Physics and Computer Science (as IB's higher-level subjects) Economics, French and English Lang-Lit. (as IB's standard-level subjects)