ABIR BHUSHAN

LinkedIn ⋄ GitHub ⋄ Website

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EDUCATION

University College London (UCL)   *September 2018 - June 2021*
Computer Science (B.Sc)
Department of Engineering

The British School, New Delhi   *August 2016 - May 2018*
International Baccalaureate (IB)
41 points (7-7-7 in Math HL, Computer Science HL and Economics SL)
256 UCAS points

Step By Step School, Noida   *August 2010 - May 2016*
International General Certificate of Secondary Education (IGCSE)
8 subjects: 8 A*s

EXPERIENCE

Procter & Gamble (P&G), New Delhi   *July - September 2018*
I.T Data Analyst Intern

- 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

Center for Science and Environment, New Delhi   *July - September 2016*
Intern Front-end Web Developer

- 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

PROJECTS

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.

Student Council voting system
I used JavaScript (Express.js) and MongoDB to create a website that allowed students in my high-school to sign-in and vote in the 2017-18 student council elections. Over a thousand votes were cast in the election and my system successfully met the high-concurrency performance requirements that previous systems didn't.

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 and SQL using an object-oriented approach and a model-view-controller 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.)

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

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)