

# Abir Bhushan

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## EDUCATION

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### University College London

2018 - 2022 (*Expected*)

- M.Eng Computer Science (with Intelligent Systems): First Class in first year with 84% in Algorithms and Data Structures

### The British School in New Delhi

2016 - 2018

- IB: 41 points (256 UCAS Tarrif) with 7 in Mathematics and Computer Science (at higher-level) and Economics (at standard-level)
- IGCSE: 8 subjects with all A\*s including Mathematics (95%) and Economics (92%)

*Awarded the Governor's Award for Academic Excellence by the Board of Governors at The British Embassy in New Delhi*

## RELEVANT EXPERIENCE

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### Infibeam Avenues

New Delhi, India

*Technology Summer Analyst*

*Jul. 2019 - Sept. 2019*

- **Final Project:** Managed the upgrade and deployment of a Node.js web application to automate the process of converting incoming catalogue data (in YAML) to an SQL table. The result was a robust application that parsed, recorded and verified serialised data of over 5,000 unique products each day; helping the Markets team develop intuitive and relevant analytics to optimise their decisions.
- **Price prediction models:** Used Python libraries such as sklearn, pandas, numpy to apply the Random Forest Regressor and create price prediction models for three distinct categories of their e-commerce catalogue. Implemented techniques such as cross validation to ensure overfitting did not occur and used Grid Search for Hyperparameter tuning, achieving 96% average model accuracy.

### Procter & Gamble (P&G)

New Delhi, India

*Software engineering intern*

*Jul. 2018 - Sept. 2018*

- **Work Shadowing:** Shadowed engineers to learn about software development at P&G and gained an in-depth understanding about different processes, requirements, and workflow at the firm.
- **Analytic application:** Worked in a team of 4 to build a fully responsive, web-based analytic application using Dash. Presented the project to 10 members of the Technology team, 2 of which were senior members. Demonstrated use of SDLC and DevOps principles.

### Center for Science and Environment

New Delhi, India

*Web Development intern*

*Jun. 2016 - Aug. 2016*

- **Front-end Web Development:** Designed and developed responsive web pages in HTML5, CSS3, and JavaScript. Attended divisional meetings to discuss requirements and was also responsible for presenting website prototypes to the head of the department.

## PROJECTS

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### The Random DevTools Project (Open-Source)

An ambitious project that I launched in the summer of 2019 to build developer tools for modern application development. As part of the project, I have developed 2 Node.js packages and 3 Google Chrome extensions. Some notable ones are:

- **quickbuild:** A Node.js package that generates an application skeleton for a variety of project types, like Express.js server, React-Redux, etc., and has an average of 80+ downloads a month.
- **Search GitHub:** An extension to construct powerful queries to search GitHub repositories, users, etc. using 24 different parameters.
- **acquire-module:** A variant of Node.js' require function that allows the developer to search for a module more effectively.

### Student Council voting system

I used Express.js and MongoDB to create a web application 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, and my system successfully met the high-concurrency performance requirements that previous systems didn't.

### An Invoicing desktop application

Improvise the functionality of an invoicing system at my high school's uniform shop in a team of six student software engineers. The application was created using Java (FX) and SQL. Some of its features included generating invoices, recording inventory data, and providing added support for sales analysis by creating reports. The final output was a more robust and substantially faster system that provided an exponentially larger number of functions compared to its predecessor.

## ACTIVITIES

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### Vice-President (Internal Affairs), UCL Artificial Intelligence Society

*Sep. 2019 - Present*

Leading a team of 15 to ensure smooth operations of all our events and internal affairs.

### President, Ramsay Hall and Ian Baker House

*Oct. 2018 - Jun. 2019*

Elected President of the largest student hall at UCL; represented the interests of 500+ students to the union and allocated budgets for community events. Also led and organised the biggest student hall ball at UCL with over 150 attendees.

## SKILLS

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**Languages:** Python 3, Java, JavaScript, SQL

– with 10,000+ lines of code or actual project experience

**Tools:** HTML5, CSS3, Node.js, MongoDB, Git, Maven