

Amish Shah

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<https://hydrabolt.me>

Skills & Interests

- Skilled in **Node.js**, **JavaScript**, **HTML5**, **CSS3**, and **Python** — evidence of my work is available at <https://github.com/hydrabolt>
- Experience with **Java**, **Android App Development**, **Vue.js**, **Git**, **Linux**, **SQL**, **WebSockets** and I'm currently learning **Rust** and **Go**
- Interested in STEM, programming, debating and badminton

Experience & Projects

IBM Lab, Manchester

2 week internship, Summer 2016

Created a program that took multiple trace logs (in varying and ambiguous formats) from separate processes on a node to interpolate them, creating a single chronological log file to aid developers in debugging their programs. I worked independently, but I also sought out help when faced with challenges.

This internship helped me to build on my knowledge of Python, Regular Expressions, SQLite, Docker, Linux, Git, and writing documentation for my code.

Discord.js, Discord API wrapper for Node.js

August 2015 - Present | <https://discord.js.org>

Discord.js is my first major open-source project, a wrapper around the Discord API (a VoIP application totalling over 87 million users). It is the most popular open-source Discord API wrapper, having over 1 million downloads and over 2,000 stars on GitHub.

This project has been a massive learning experience, helping me to learn about Node.js & JavaScript, Design Patterns, Git, Documentation, Networking, Front-End Design, Audio Encoding, and working collaboratively with other developers across the world.

Braille Game, Hackathon 2016

2-day project

At my first hackathon, I led a winning team of 4 to produce a game to promote the awareness of Braille as a way of highlighting different ways of communication.

Using Java and Android Studio to create an app, we made a multiplayer game that lets players race against each other to "spell out" sentences in Braille, using WebSockets to connect devices.

STEM Ambassador, West Hill School

2015 — 2017

I regularly attended my school's STEM club and worked on engineering, physics and chemistry projects. I later volunteered to help run a STEM summer school for prospective students, making sure that the students felt comfortable with the work, encouraged them to work together, and helped them with any problems they had.

After the summer school, I continued with my role of promoting STEM throughout school, running assemblies on it and volunteering at the club to help younger pupils and explain concepts to them.

Education

Ashton Sixth Form, Ashton-under-Lyne

2017 - 2019

Studying for A-levels in Mathematics, Chemistry, Physics and Computer Science. I'm also part of the debate society.

West Hill School, Stalybridge

2012 - 2017

Participated in the STEM and Debate club for 5 years, representing the school at regional debates and also volunteering at a STEM summer school, later becoming a STEM ambassador. Helped annually at open evenings and I became a Senior Prefect in my final year. I achieved 10 GCSEs:

• Mathematics	9 (A**)	• Biology	A*
• English Language	9 (A**)	• Computer Science	A*
• English Literature	8 (A*)	• Business Studies	A*
• Chemistry	A*	• History	A
• Physics	A*	• ECDL	Level 2 Distinction*

Achievements

- **Duke of Edinburgh** Bronze Award
- **National Citizen Service**, Summer 2017
- **Part of the winning team in local Go4SET Engineering Project**, designing and building a model of a sustainable and eco-friendly school.
- **Distinction Award** in the UK Bebras Computational Thinking Challenge
- **Silver Medal in UK Mathematics Trust Challenge**
- **Led two winning Hackathon teams**
- **Competed in the British Informatics Olympiad 2018**