

# Tejas Dandawate

## Curriculum Vitae

### WORK EXPERIENCE

JULY 2017

GAM

#### Software development

I worked extensively with databases and stock information, culminating with a presentation of a program to predict future stock prices. This allowed me to learn a new programming language on the fly, utilising it for data analysis. It made me realise the importance of data in the modern world, and the infrastructure in place to store and sort such large amounts of it.

JULY 2016 – JULY 2017

Oakdale Library and Oxfam

#### Community Volunteering

I lead sessions in the library as a tutor, as well as helping with the marketing of events. At Oxfam, I helped with pricing and reorganised the internal database to improve donation logs and record maintenance. These experiences allowed me to interact with a variety of people and hone my communication skills.

JUNE 2015

TG Engineering

#### Product Development/Inspection

I assisted in the creation of a product, from CAD sketch-ups to testing. This gave me a feel of what it is to be an Engineer and the difficulties faced when creating products for consumers, such as working with a specification and adhering to stringent quality controls.

### PROJECTS

JULY 2020 – OCTOBER 2020

Imperial College London

#### UnderGraduate Research Program

"Applying a Gradient Free Sampling-Based Approach For Training Deep Spiking Neural Networks". Using a new machine learning optimisation method for spiking neural networks.

JANUARY 2020

Hack Cambridge

#### 24-hour Hackathon

During this hack I was able to learn JavaScript to create an on-line reporting service to track the wildfires that were occurring in Australia. We utilised Microsoft Azure APIs and back-end systems.

JANUARY 2017 – JULY 2017

Young Enterprise

#### Managing Director of Business

I created and led a business to a second-place finish in the regional finals. I was involved from the conception of a product to its marketing and eventual sale.

SEPTEMBER 2017 – JULY 2017

Poole Grammar School

#### Prefect

Elected as part of the school prefect body where I assisted with the running and organisation of events.

AUGUST 2015/AUGUST 2017

Duke Of Edinburgh

#### Youth Awards Program

Completing bronze and engaging in gold had me engaging vocations such as volunteering, as well as working with a team to plan and carry out expeditions. During this time I also passed my grade 8 drumming exam with distinction.

### ABOUT ME

I'm a driven 3rd year Electronics and Information Engineering student at Imperial College London. Being a motivated, hard-working and dedicated person, I enjoy undertaking new challenges and opportunities. My communication, analytical and organisational skills have been honed through group academic projects and work experience where I have proven to be adaptable and dependable. I am keen to explore new opportunities, learn more about my field and work with other like-minded individuals.

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### EDUCATION

2018 – 2020 **Electronics and Information Engineering (on track to achieve first class honours)**

MENG DEGREE

Imperial College London

2016 – 2018 **A\* in Mathematics, A in Further Mathematics, Physic, Computer Science and Electronics**

A LEVELS

Poole Grammar School

2014 – 2016 **9 A\*s (including mathematics, the sciences and computer science) and 3As (including electronics)**

GCSEs

Poole Grammar School

### OTHER PROGRAMMING

2018-2020 **Verilog and High Level Synthesis on FPGA**

Created a edge detection system for a virtual keyboard

2019 **C++**

Projects such as a mastermind solver and 2048 game

2018 – 2019 **MIPS**

Created a MIPS simulator and compiler in C++

2017 – 2018 **Python on Raspberry Pi (Using bread-board)**

Created a tachometer for an electric race car to act as a speedometer

### COMMUNICATION SKILLS

ENGLISH Oral: Native – Written: Native

HINDI Oral: Native

SPANISH Oral: Basic – Written: Basic

FRENCH Oral: Basic – Written: Basic

### SOFTWARE SKILLS

ADVANCED LEVEL C++, C, Verilog, ARM, MIPS, Python, SQL, UNIX

INTERMEDIATE Java, VB, MATLAB, gcc, git

BASIC LEVEL HTML, CSS, Javascript