SIDDHARTH SRIVASTAVA

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EDUCATION

University of Warwick   September 2020 - Present
MEng Computer Science   *Coventry, United Kingdom*

· Modules: Functional Programming, Algorithms, Advanced Computer Architecture, Computational Physics,
  Electrical and Electronic Circuits
· First Class Honours (20/21)

Overseas Family School   August 2018 - May 2020
International Baccalaureate Diploma   *Singapore*

· 43/45 IB Diploma points (Higher Level Mathematics, Physics, Economics)

EXPERIENCE

American Express   June 2022 - August 2022
Technology Engineer - Global Commercial Services   *London*

· Collaborated in a group of 6 interns and 3 full time engineers on a software project, following the **Scrum** methodology
· Designed and engineered a micro-services based web application to facilitate data migration between the old FXIP platform to
  the new Global Pay platform, engineered using **Kotlin**, **Spring Boot**, **React** and **PostgreSQL**
· Implemented containerization using **Docker** to isolate the services and databases into their own containers, facilitating a stream-
  lined deployment to production

Warwick Moto   November 2020 - Present
Mathematical Modelling & Control Systems   *University of Warwick*
Warwick Moto is a student-led engineering team to build fully-electric race-spec superbike.

· Designed algorithms in **Python** to compute an elevation cycle for the Isle of Man circuit using geographical data and a drive
  cycle
· Engineered a 3 degree of freedom vehicle model in **Simulink** using the vehicle dynamics blockset to simulate longitudinal and
  lateral movement of the bike
· Developed an algorithm to convert waypoint data of any racetrack into a steering cycle to simulate the running of a bike on a
  track
· Programmed a new Electronic Control Unit with two CAN channels based on the Embed E400 Automative Controller using
  Simulink and **CANalyzer**
· Implemented contactor sequencing to ensure safe startup, state transitions and shut down for the motor and inverter on the bike

Primrose Hill Surgery   June 2021 - August 2021
Administrator & IT Support   *London*

· Utilized **Pandas** and **NumPy** to perform data analysis on vaccination data at the local vaccination site to enable equitable
  allocation of funds
· Performed searches on **EMIS** to sort patients based on criterion to provide specialised care
· Operated the NHS e-referral service to refer patients to hospitals for advanced care
· Volunteered at the local vaccination site as a vaccinator to administer over **1000** COVID-19 jabs
· Coordinated the IT response to manage the **Palantir Foundry** vaccine ordering platform and Outcomes for Health Point of
  Care system to ensure smooth operations

Warwick Engineering Society   November 2021 - June 2022
Technology Ambassador   *University of Warwick*

· Upgraded the EngSoc PDR progressive web application using **axios** to fetch event data from an API and display it on the home
  screen, enhancing user experience

PROJECTS

STEMM   **JavaScript, Deepgram API**

- A Chrome Extension that uses the Deepgram API to control the Chrome browser using voice control
- The project was featured on Deepgram's blog.

SOULFOOD   **React Native, Firebase Auth, Cloud Firestore, Axios**

- An cross-platform mobile application that pulls recipes from an API and allows users to 'like' recipes to save to their profile

England COVID-19 Dashboard   **React Native Chart Kit, Axios**

- A cross platform mobile app that pulls data from the UK Government's API and displays graphs showing the latest 6 months
  of COVID-19 cases and deaths

SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, PHP, SQL, MATLAB, Simulink, Kotlin
Frameworks/Tools: matplotlib, numpy, scipy, pandas, Flask, React, React Native, Beautiful Soup, Tensorflow, Keras