Mayank **Sharma**

COMPUTING STUDENT · IMPERIAL COLLEGE LONDON

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Education

Dr Challoner's Grammar School, Secondary School   A Levels: 4 A*'s (*Maths, Further Maths, Physics, Electronics*) 2011 - 2018 *Amersham, UK*

Imperial College London, MEng Computing - 4 Years   2018 - Now   *London, UK*

- Featured on Dean's List for Academic Excellence in 2nd Year (top 10% of the cohort) and achieved 1st Class Honors for both years.
- Recipient of IBM 2nd Year Computing Prize
- Chosen to be a Personal Programming Tutor for 1st Year Students

Experience

Netcraft ∅   *Software Engineer*
PERL, NODEJS, TYPESCRIPT, JAVA, PUPPET, POSTGRES, MYSQL   *July 2020 - Sept 2020*

- Worked for 3 months with Netcraft's GSB (Google Safe Browsing) development team, responsible for delivering a Cyber- security solution to large corporations and governments in order to safeguard their customers against phishing sites.
- Improved the scalability of the product which resulted in a 300% performance improvement, and resolved several long-standing accuracy issues, often by completely rewriting the existing code. Additionally, given the responsibility to manage the production environments used to deploy the solution.

Lime (Live Management of Events) ∅   *Cofounder*
REACT, SPRING BOOT, FIREBASE, DOCKER, KOTLIN, NODEJS, AWS, GITLAB CI/CD, IONIC   *May 2020 - Present*

- Award winning app-based platform to bridge the communication gap between hosts and attendees during small to medium events. Features include live announcements to attendees, resource distribution, event signups and personalized itineraries and integration with Eventbrite.
- Following recognition as the best project in our cohort under the annual IBM Prize, productized the app and deployed for use by 500 users to manage the new students onboarding process at Imperial College London. Subsequently, the app is set will be used in a EESoc event at Imperial to facilitate the smooth running of their online event. Other events are in pipeline for using the App (such as a Women in Tech conference).
- Employed Agile practices such as sprints, and Continuous Integration and Deployment through Gitlab CI/CD.

Tongadive (Startup) ∅   *Full Stack Developer*
CORDA, SPRINGBOOT, KOTLIN, REACTJS, NODEJS, AWS, JENKINS, IONIC, POSTGRES   *May 2019 - Present*

- Independently added a large number of new features on TraceKen, a blockchain based pharmaceutical supply-chain management product.
- Refactored the application code to drastically improve the performance and make it scalable to handle thousands of records added at once.
- Understood the requirements that come with building enterprise software, and applied this in my development process, keeping performance, scalability, user experience, and reliability in mind. Also played a major role in moving to a microservice based architecture.
- Took initiative and lead in the development of a hybrid web app, mentoring 2 full-time employees in the process.
- Currently working part-time to add machine learning and artificial intelligence capabilities to the product for improving distribution efficiency.

Virtusa Polaris ∅   *London, UK*
WORK EXPERIENCE – JAVA, WEKA   *May. 2018 - Jul. 2018*

- Worked with the VP of Digital and the FinTech lab team on a Machine Learning Project.
- Learnt the basics of supervised and unsupervised machine learning using tools like Weka and Java and applied it for creating a model using training sets to calculate the risk of giving a company or person a loan based on a number of parameters.

Projects

C ARM Assembler and Emulator Project   *Nov. 2018 - Dec. 2018*

- Designed and built an emulator that executed compiled binary code, and an assembler that converted assembly code into binary code in C for the ARM 11 instruction set.
- Built a new IO device which is able to detect regions on a flat surface written completely in C. The position of the object was displayed on a graphical interface on the screen. Recognized as top 10 projects of the year.

Home Security System   *Dec. 2019- Now*

- Designed and Developed Home Security system for my home, which includes live motion and object detections. Once a valid motion is detected, a notification is sent to a companion mobile app, along with an email. A 20 second video is also taken and stored

IC Hack 2020 - Lookout   *Feb. 2020*

- Led the development of a solution using Cisco's Meraki Cameras and AP to keep an eye on the elderly, making sure they are healthy, happy and safe. The relative's phone will have our app, which provides notifications if the elderly person falls suddenly, or has not been seen during the expected times of the day.
- Finalists in 2 categories at IC Hack 2020

Skills

Programming   Kotlin, Python, C, Java, Haskell, JavaScript (including its variants such as Node.JS, Angular, ReactJS), HTML/CSS/JS Frameworks for WebApp development

Robotics   Hobby for many years and led the Engineering Society at school. Led a team and won the 2018 PiWars Competition.