

Samanyou Garg

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EDUCATION	BSc in Computer Science University of Manchester	(Expected) 2015 – 2019
WORK EXPERIENCE	Application Developer Industrial Placement Vertex Pharmaceuticals	July 2017 - Present
	<ul style="list-style-type: none">▪ Worked on a genetic and genomics data platform. Downloaded, cleaned and integrated big data from multiple sources for target identification and prioritisation. Created data analysis and visualisations using tools like pandas, json, D3, numpy etc. Set up multiple AWS instances from scratch.▪ Redesigned a python-driven web app and added new functionality to streamline the process of "blood donation for drug testing" with a huge amount of positive feedback from the end users.▪ Developed a "Progressive Web App", making it quick and easy for any employee to report near misses, incidents and accidents, overcoming the challenges of accessibility and security. Also, wrapped the web app into a robust native Android app and deployed it to many Android devices.▪ Integrated lab equipment directly to the network and developed an IoT application allowing scientists to extract data from the equipment as well as analyze and visualize that data in real-time or over the course of an experiment window using a task scheduler.▪ Designed a fully comprehensive REST API standard project template for other developers to quickly create an API layer on their web projects.▪ Built a REST API allowing any web application to interact with the server embedded in barcode scanners using python's socket library.▪ Developed a web application to automate the workflow of filling paper Risk Assessment forms by chemists, when starting a new experiment. Features - Dynamic form field generation, PDF generation, Experiment Approval Mechanism, Batch form sign-off feature to review and sign multiple forms at once.	
	Web Developer CRIS New Delhi, India	June 2016 - Sept 2016
	<ul style="list-style-type: none">▪ Redesigned "Rail Road Crossing Management System" for better planning, coordination and faster execution of work between two Government Departments.	
TECHNICAL PROJECTS	Stendhal Open Source Game Eclipse, Git, Apache Ant, Jenkins, Junit and SonarQube	
	<ul style="list-style-type: none">▪ Tested, debugged, built, developed and deployed a multi-user, multi-threaded, client-server open source game containing over 6000 Java classes and 1800 test cases.▪ Worked on the automation of builds and tests leading a team of 6 people over 12 weeks.	
	Machine Learning Matlab	
	<ul style="list-style-type: none">▪ Developed a "Handwritten Digit Recognition" algorithm as part of Machine Learning coursework to classify the digits from 500 data samples and a "Spam Filtering" algorithm to distinguish between 'spam', 'non-spam' and 'uncertain' email messages.	
VOLUNTEERING	Volunteer The Global Education and Leadership Foundation	2011 - 2013
	<ul style="list-style-type: none">▪ Stayed in a village in Rajasthan, India and interacted with villagers and their children, listened to and solved their problems, helped them in daily chores and encouraged them for higher purpose in life.	
SKILLS	Programming - Python, Java, HTML, CSS, Javascript, C, SQL, Matlab, Prolog. Tools and Frameworks - Bash, Jupyter, Docker, MySQL, PostgreSQL, Redis, Apache, Nginx, Hadoop, Spark, Hive, Microsoft Office, Latex, IntelliJ, Atom, Eclipse, Sublime Text, Shell, Mac, Linux, Windows, Tensorflow, PyTorch, Flask, Django. Cloud and Version Control - AWS, Google Cloud, Heroku, Git, Jira, Jenkins, Travis.	
REFERENCES	References available on request.	