

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 - June 2018
	<ul style="list-style-type: none">▪ Worked on a genetics and genomics data platform. Downloaded, cleaned and integrated big data from multiple sources for target identification and prioritisation. Extracted useful insights from the data and presented it to users in the form of visualisations. Set up multiple AWS instances from scratch.▪ Redesigned a web app from the ground up and added new functionality to streamline the process of "blood donation for drug testing" with a massive amount of positive feedback from the stakeholders.▪ 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. Wrapped the web app into a robust native Android app and deployed it to many Android devices across different sites.▪ Integrated lab equipment directly to the network and built an IoT application allowing scientists to extract data from the equipment as well as analyse and visualise that data in real-time or over the course of an experiment window using a novel task scheduler.▪ Introduced a fully comprehensive REST API "standard project template" for other developers to quickly create an API layer on their web projects.▪ Created a REST API allowing any web application to interact with the servers embedded in legacy barcode scanners using python's socket library.▪ Engineered a web application to automate the workflow of filling paper Risk Assessment forms by chemists, when starting a new experiment.	
	Web Developer CRIS New Delhi, India	June 2016 - Sept 2016
	<ul style="list-style-type: none">▪ Upgraded a Spring-based java-driven web application for better planning, coordination and faster execution of work between two Government Departments.	
PROJECTS	BhagavadGita.io Flask, ElasticSearch, PostgreSQL, Material Design, AWS	
	<ul style="list-style-type: none">▪ Implemented OAuth 2.0, 3rd party social login APIs, Elasticsearch for full-text search, Progressive Web App functionality, REST API, OpenAPI spec, native android wrapper.▪ Designed and incorporated best-in-class features like Progress Tracking using detailed graphs and statistics, Achievements system to reward users based on their progress, customisable Reading Plans, daily Email and Push Notifications and more.	
	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.	
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.	
VOLUNTEERING	Volunteer Pravah	2013
	<ul style="list-style-type: none">▪ Keenly volunteered with an NGO for a 5 day long rural sensitizing trip to the villages in Una, Himachal Pradesh, India. As part of the program, we interacted with villagers and their children, helped them in daily chores, learnt and understood their lives, and encouraged them for a higher purpose.	