Samanyou Garg

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EDUCATION	**BSc (Hons) in Computer Science** | University of Manchester	*2015 – 2019*

WORK EXPERIENCE

Application Developer Industrial Placement | Vertex Pharmaceuticals   *July 2017 - June 2018*

- Worked on a genetics and genomics data platform (Flask/AngularJS/ElasticSearch). Downloaded, cleaned and integrated big data from multiple sources, extracted useful insights from it and presented it to users in the form of visualisations. Also, set up multiple AWS instances from scratch.
- Redesigned a web app (Python/Django/MySQL) from the ground up and added new functionality to streamline an internal process with a massive amount of positive feedback from the stakeholders.
- Developed a Progressive Web App (Flask/MySQL/Javascript), making it quick and easy for any employee to report incidents and accidents, overcoming the challenges of accessibility and security. Developed an accompanying Android app and deployed it to many devices across different sites.
- Integrated lab equipment directly to the network and built an IoT application (Python/Flask/Javascript) 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" (Python/Flask/OpenAPI) for other developers to quickly create an API layer on their web projects.
- Created a REST API (Flask/Python) allowing any web application to interact with the servers embedded in legacy barcode scanners using python's socket library.
- Engineered a web application (Python/Flask/Javascript/MySQL) 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*

- 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, AWS   *March 2018 - June 2018*

- Developed a modern Gita (700 verse Hindu scripture) app with a simple, beautiful and easy to use interface, helping the user focus on reading.
- Implemented OAuth 2.0, 3rd party social login APIs, Elasticsearch for full-text search, Progressive Web App functionality, REST API, OpenAPI spec, android wrapper, daily Email and Push Notifications.

Stendhal Open Source Game | Eclipse, Git, Apache Ant, Jenkins and Junit   *Sept 2016 - Jan 2017*

- 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   *Oct 2016 - Nov 2016*

- 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 Languages: Python, SQL, Java, HTML, CSS, Javascript, C.
Other Technologies: Bash, Docker, NoSQL, Nginx, Hadoop, Microsoft Office, Latex, Mac, Linux, Windows, Tensorflow, Amazon Web Services (AWS), Google Cloud Platform (GCP), Git, Jira, Jenkins.

VOLUNTEERING

Volunteer | Pravah   *April 2013*

- 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, I interacted with villagers and their children, helped them in daily chores, learnt and understood their lives, and encouraged them for a higher purpose.