

SUMIT KUMAR

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🐙 github.com/sumitdvlp

TECHNICAL SKILLS

Languages	Java, Python, Matlab, PL/SQL, Shell(Bash), Scala, Javascript
Backend & Databases	RESTful, Apache Tomcat, Nginx, Redis Queue, Docker, MySQL, MongoDB, Oracle, Elastic Search
Tools & Frameworks	Django, Flask, Apache Spark, Android, D3.js, Hadoop, Git, AWS, JIRA, Azure, OAuth
Machine Learning	Regression, Feature Selection, Naive Bayes, Support Vector Machines, Clustering, Neural Networks

EDUCATION

Master of Computer Science	Arizona State University, Tempe GPA - 3.6/4.0	Jan 2017 - Dec 2018
Bachelor of Technology, Computer Science	Jaypee University Of Engineering & Technology, India	Jul 2007 - Jun 2011

EXPERIENCE

Starbucks Technology Center May 2018 - July 2018

Data Science Intern (Flask, Python, Sklearn, Nginx, Redis Queue, Alexa, Spacy, Slack API, Docker, Airflow)

- Developed an AI chatbot API (a personal Barista) with a team of 3. Implemented functionalities like coffee run and group order.
- Planned and deployed chat bot integration with Slack, using multi-threading and authentication to make it production ready.
- Initiated scalable deployment plans and architecture for 6000 employees, utilizing different services like Docker and Nginx.

Tomnet Center

Aug 2017 - Present

Software Engineer (Django, Python, AWS, Nginx, Redis Queue, Docker, S3)

- Designing and developing tool that can quantify the transport/residential energy consumption of an individual household.
- Designed and developed a web app for PopGen software. Loosely coupled services to increase availability and cloud cost \$1/month.
- Engineered on-premise back-end service and implemented scalability, load balancing, and RESTful for the backend.

ASU-Mayo Clinic Informatics Laboratory

May 2017 - July 2017

Machine Learning Developer (Python, Sklearn, Matplotlib, Pandas, Numpy, Machine Learning, Tkinter)

- Developed feature selection tool for clinical practitioners to identify relevant features for high dimension data (60K features).
- Experimented and built in-house pipeline algorithm for feature selection which improved accuracy by 15% and efficiency by 3 times based on Sequential Forward Selection (SFS).

Deloitte Consulting

Jun 2015 - Dec 2016

Technology Consultant / Data Engineer (ETL, Data Warehouse, Hadoop, Hive)

- Designed and implemented end-to-end Data Warehouse systems using ETL Tools, shell scripting and performance tuning of the database. Automation decreased Manual Intervention by 25%. It processes 2 million records daily.
- Created Data Warehouse Framework design of the solution that included automation of data profiling and cleaning.

Accenture

July 2011 - Jun 2015

Software Engineering Analyst / Data Engineer (ETL, Data Warehouse, SAP HANA)

- Developed and implemented SOA Mainframe application and improved ERP and BI reporting solutions.
- Implemented automation in Data warehouse using SAP Data Services, HANA increased efficiency of the solutions by 3 times.

HACKATHON, SIDE & ACADEMIC PROJECTS

Hot Spot Analysis of New York Taxi Trip Spatio - Temporal Data

Apache Spark, Hadoop, Scala, HDFS

- Developed a distributed application using Spark Scala API and Hadoop File System that performs geospatial operations on 300 million datapoints and returns 50 most statistically significant Hotspots in New York City.

Interview AI - Side Project

Alexa, Flask, Python, SVM

- Developed a skill which gives candidate's success probability score for recruiters to screen applicants in behavioral interviews.

Electronic Health Record using Alexa - Winner Hack Arizona - MLH 2017 season

AWS Lambda, Python, S3, AWS API

- Developed an EHR system for 3rd world countries, it can help Physicians to access and store records patient's records using Alexa.

Cloud Pi

EC2, S3, SQS, IAAS, AWS Java API, C

- Built an elastic, scalable SaaS application using Amazon IaaS to calculate the value of 'Pi' using SFFT C program.

Free-Cast

Android Studio, Google Cloud Services, Google App Engine Java API, Firebase

- Developed mobile app which allows users to notify all other users about the availability of free stuff, in real time.

Cross Site Scripting XSS filter

BeautifulSoup, Python, LAMP

- Designed and developed a tool that can be used by a naive developer or existing server admin who has no experience in web security to protect the application from XSS, SQL Injection, and OS command injection attacks.