

# Sarthak Jain

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## EDUCATION

**SAN JOSÉ STATE UNIVERSITY | COLLEGE OF ENGINEERING**

MASTERS | SOFTWARE ENGINEERING | (3.85/4.0)

Relevant Coursework: Cloud Technologies, Enterprise Software Platform, Enterprise Distributed Systems(\*), Virtualization Technologies(\*), Software Systems Engineering(\*) (\*Spring 2020)

SAN JOSE, CA

AUGUST 2019 - MAY 2021

**NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**

B.TECH. IN ELECTRONICS & COMMUNICATION ENGINEERING | CGPA: 8.95/10

Relevant Coursework: Data Structures & Algorithms, Database Systems, Operating Systems, Introduction to Machine Learning, Artificial Intelligence & Expert Systems, Neural Networks, Computer Architecture, Probability & Statistics

JAIPUR, INDIA

JULY 2013 - MAY 2017

## PROFESSIONAL EXPERIENCE

**TEKSYSTEMS GLOBAL SERVICES PVT. LTD**

Associate Software Engineer | Hyderabad, India | July 2017 - May 2018

- Automated the task of resource allocation and weekly status reporting, increasing the productivity by at least 10%.
- Automated physical monitoring of servers by deploying shell scripts that email health reports every morning.
- Built Tableau reports providing geospatial analysis of stores highlighting defaulters who did not submit their sales data.
- Revamped company's skill portal website using Oracle APEX providing sophisticated means of resource allocation, reports highlighting company's areas of expertise & portal accessibility to entire organization spanning geographies.

**UNIVERSITY OF NEW BRUNSWICK**

Research Assistant | Fredericton, Canada | May 2016 - August 2016

- Filtered the data using high dimensional data visualization & reduction techniques such as PCA, TSNE & observing the movement w.r.t. time & space.
- Developed adaptation algorithm to automatically change classifier boundaries based on the variations in new data thus obviating the need of manual re-training of classifiers.
- Use of classifier and user independent metric in adaptation eased its integration with the indigenously developed pattern recognition algorithm.

## RELEVANT PROJECTS

**CROWD-SOURCED MOBILE TESTING PLATFORM AS A SERVICE**

San Jose State University | September 2019 - January 2020

- Developed a Mobile Application Testing Platform as a Service connecting Project Managers to crowdsourced Testers providing on-demand elastically scalable testing services.
- TestRunner using AWS Device Farm, Custom Bug Tracker, Discussion forum, Project file directory & personalised reports let users monitor their project resource consumption & cost incurred.
- Using AWS ELB & Auto Scaling to support load traffic with MongoDB & S3 for storage, ECS for containerized application deployment & React and Nodejs for frontend and backend server respectively. ([Project link](#))

**SMART LOAD SCHEDULING**

San Jose State University | September 2019 - December 2019

- Developed a SaaS application that provides a Smart Schedule for home appliances considering ToU pricing, solar energy & user defined operating hours as input to flask computing server.
- Dashboard reports on daily savings, each appliance's operating cost, total monthly savings & units sold back to grid encourages users to shift their usage to non peak hours of the day.
- Implemented distributed service using Kafka & deployed on IBM Cloud using its Kubernetes service.

**IOT BASED APPLICATION: SMART DOOR LOCKS**

Electronics & Communication Department, NIT Jaipur, India | Spring 2017

- Manifested voice samples over raspberry-pi enabling voice controlling of locks via developed android application from anywhere on the campus, reducing the physical labor. Attached keypad & lcd provides for network failures.

**MULTILINGUAL INFORMATION RETRIEVAL**

Zine Research Lab, NIT Jaipur, India | Fall 2015

- Awarded 2<sup>nd</sup> place in a shared task organized by Microsoft Research for identifying languages and named entities from words in multilingual sentences found on social media. Publication accepted and presented in conference ([link](#)).

## SKILLS

Proficient Languages: Java, SQL, C++, JavaScript, Python, HTML5, CSS

Technologies: AWS EC2, ECS, S3, Device Farm, CloudWatch, Google App Engine, Kafka, Docker, MongoDB Atlas, IBM Cloud

Kubernetes Service, IBM Watson Assistant, Unix, Node.js, React.js, Oracle SQL Developer, GIT, Informatica, Tableau

Volunteer: Emergency blood donor at Blood Connect

## AWARDS

2016	Patent	'ORTHO-DAER', low cost setup for detection and analysis of Osteoarthritis
2015	2 <sup>nd</sup> /10	Microsoft shared task, FIRE Conference
2014	1 <sup>st</sup> /20	RoboArm, TechExpo, NIT Jaipur, Techfest
2014	top 10/100	Transporter, IIT Kharagpur Techfest