

Sarthak Jain

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EDUCATION

SAN JOSÉ STATE UNIVERSITY | COLLEGE OF ENGINEERING
MASTERS | SOFTWARE ENGINEERING | (3.85/4.0)

SAN JOSE, CA

AUGUST 2019 - MAY 2021

Relevant Coursework: Cloud Technologies, Enterprise Software Platform, Data Structures & Algorithms in C++, Enterprise Distributed Systems(*), Virtualization Technologies(*), Software Systems Engineering(*) (*Spring 2020)

NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

JAIPUR, INDIA

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

JULY 2013 - MAY 2017

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

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%**.
- Developed & supported Jack in the Box **Informatica** workflows and deployed shell scripts to monitor server status.
- 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 and elastically scalable testing services. ([Project link](#))
- Test Runner 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.

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 **2nd** 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.

SKILLS

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

Technologies: Microsoft Visual Studio, AWS EC2, ECS, ECR, S3, RDS, DeviceFarm, CloudWatch, Google App Engine, Kafka, Docker, MongoDB Atlas, IBM Cloud Kubernetes Service, IBM Watson Assistant, Unix, Node.js, React.js, GIT, Informatica, Tableau

Volunteer: Emergency blood donor at Blood Connect

AWARDS

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