

# 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 gathered data using techniques such as **PCA, TSNE** & observing the data movement in time & space.
- Developed **adaptation algorithm** using **classifier and user independent metric** to automatically change **classifier boundaries** based on the variations in new data thus obviating the need of manual re-training of classifiers.

## RELEVANT PROJECTS

**HANDSHAKE PROTOTYPE**

San Jose State University | February 2020 - Present

- Developing Handshake Application using **Nodejs, Express, Reactjs, Redux, HTML5, CSS3, RDS, MongoDB & ECS**.
- Companies can post **Job opening, Events, Edit Profile, Search Students**, see **Profile** and **Resume** of students who applied for job and make decisions on their applications & **JMeter, Mocha & Enzyme** for backend & frontend testing.
- Students can **Apply** for Jobs, view **Company's Profile, Upload Resume, Register for Events**, Update Profile adding **Basic Details, Education, Professional Experience & Skill set** and **Search** for other students using name, college name or skill.

**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.
- 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**.

**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.

## 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

2016	<b>Patent</b>	'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