Sarthak Jain

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EDUCATION

SAN JOSÉ STATE UNIVERSITY | COLLEGE OF ENGINEERING — SAN JOSE, CA
MASTERS | SOFTWARE ENGINEERING | (3.85/4.0) — 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 using **Oracle APEX** & 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

AMAZON.COM PROTOTYPE
San Jose State University | March 2020 - Present
- Developing Amazon.com prototype using **MERN stack, Kafka, Passport, RDS, Redis Caching & Server side Pagination**.
- Features include **Sellers** create products, make order updates & view **sales reports**. **Customers** can add products to **cart** & **save for later** purchase. Ability to cancel individual products in an order, **send gifts** & view multiple product images.
- **Admin** have **reports** for monitoring Platform & can make order updates. **AWS ELB & ASG** will be used for scalability.

HANDSHAKE PROTOTYPE
San Jose State University | February 2020 - Present
- Developing Handshake Application using **MERN stack, Redux, Kafka, JWT, Passport, RDS & Client Side Pagination**.
- 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
- Connected Project Managers to crowdsourced Testers providing on-demand elastically scalable testing platform.
- 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 **distributed** web application that provides **Smart Scheduling** of home appliances considering ToU pricing, solar energy & user comfortability as input to **Flask server** and deployed on **IBM Cloud** using its **Kubernetes service**.
- **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.

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

Year		Description
2016	**Patent**	'ORTHO-DAER', low cost setup for detection and analysis of Osteoarthritis
2015	2nd/10	Microsoft Research, FIRE Conference, **Publication accepted** for identifying Languages and Named Entity
2014	1st/20	RoboArm, TechExpo, NIT Jaipur, Techfest
2014	top 10/100	Transporter, IIT Kharagpur Techfest