SACHIN VASANT KARVE

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EDUCATION

M.S., Software Engineering, San Jose State University, CA, USA — May 2021
B.S., Computer Science, Visvesvaraya Technological University, India — May 2015

PROFESSIONAL EXPERIENCE

Instructional Student Assistant (ISA) **San Jose State University** Aug 2019 - Dec 2019

- Leading in teaching a 3-unit Computer Science course, CMPE187: Software Quality Engineering
- **Technologies:** Cucumber, TestNG, SOAP UI, Eggplant, and Selenium WebDriver

Senior Software Engineer **Infosys Ltd. | Apple Inc**. Nov 2015 - Jun 2019

- Implemented AVL trees reducing time complexity from O(n) to O(log(n))
- Developed a frontend global API call dashboard for real time B2B monitoring in ReactJS
- Implemented parallel programming using Cucumber to run API hits reducing turn-around time by 60%
- Developed a pattern recognition system through Splunk logs reducing the API downtime by 16%
- Redesigned Oracle Xstore Point of Sale for cross economy zone usage thus increasing customer involvement by 17% and revenue by 2Bn dollars
- Engineered an Android application solving a legacy problem and increasing employee satisfaction by 13%
- Delivered 22 Agile releases with less than 5% average defect escape rate

TECHNICAL SKILLS

- **Languages**: Java, Python, JavaScript(ES6), HTML5, JSON, JSX, and XML
- **Framework**: React.js, Redux, Node.js, Android, Express.js, and Passport.js
- **Web Services**: REST, GraphQL, Docker, and AWS
- **Database**: MongoDB, SQL, SQLite, DynamoDB, and Redis
- **Software**: Apache Kafka, Splunk, MS Office, and HP ALM
- **Tools**: VSCode, Android Studio, Eclipse, Git, Jenkins, Postman, Mocha, Chai, JMeter, Rally, and Jira

PROJECTS

Fruit Decay Recognition System Sep 2019 - Dec 2019

- Built a Machine Learning based application to recognise fruit decay alarms at large warehouses
- Incorporated IBM Watson Visual Recognition to create a model and test on a diverse data set
- Targeted towards food processing industry thus leveraging can reduce food wastage by 10%
- **Technologies**: IBM Watson, Android, and Node

Micro Blogging Website (Prototype of Twitter.com) Aug 2019 - Nov 2019

- Developed a distributed web application prototype enabling in app messaging with React and NodeJS
- Implemented message queues to reduce turnaround time by 18%, better scalability and granularity
- **Technologies**: React, Express, Message Queues, Redux, AWS and MongoDB

Online Food Delivery Application (Prototype of Grubhub.com) Dec 2018 - Mar 2019

- Developed frontend and backend maximizing modularity for all features between two user roles
- Managed project workflow within team using Git and deployed application using CI/CD pipeline
- **Technologies**: React, Node, Express, Kafka, Redis, and GraphQL

Path Recording Application Apr 2018 - Jul 2018

- Programmed a hardware module to capture movements using gyro-sensor and render it on a phone
- Achieved offline implementation of relative maps with accuracy close to 5 meters
- Targeted towards users working in low connectivity areas, mines, caves and rescue missions
- **Technologies**: Arduino, Android, Gyro Sensors