

# SAGAR BONDE

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## SKILLS

- **Languages:** JAVA, Python, JavaScript, C++
- **Web Development:** JAVA, Spring MVC, NodeJs, ReactJs, GraphQL, Ruby on Rails, CSS, PHP, AWS lambda
- **Database:** MySQL, MongoDB, DynamoDB
- **Cloud Computing skills:** AWS EC2, AWS Sagemaker, Apache Spark, Docker, Jenkins

## EDUCATION

- **San Jose State University** Dec 2020  
Master of Science: Software Engineering
- **Sardar Patel College Of Engg,** May 2015  
B.Tech (Electrical Engineering)

## EXPERIENCE

### Software Developer, Member of Co-founding Team

June 2015 - Jan 2019

#### Thingbits Electronics Pvt. Ltd, Mumbai, IN

- Designed & Built a **B2C e-commerce platform**, a Software-As-a-Service Web application for our Startup.
- Developed the **RESTful** Application Programming Interfaces using microservices architecture.
- Worked on response time improvement of the platform, through caching, load balancing to achieve high scalability of the platform for **handling 5x more user traffic**.
- Created a backend operations UI Dashboard for order management of the ecommerce supply chain using **JAVA & Spring MVC Framework**.
- Implemented **customer notification system** & personalized recommendations that **reduced cart abandonment rate & reduced bounce rate by 20%**, also Integrated **shipment tracking & Shipment creation APIs**.
- Wrote web scraping scripts using **Python libraries** to **automate data collection from vendor sites** for product listing & Shopping category creation that increased revenue by 10 fold.
- Developed a data pipeline for a product recommendation system that increased order conversion rate by 30%.
- **Played a key role in Building Customer Support & Operations team** for supply chain management operations of the company, witnessed the **growth** from ground up to **\$1 Million annual revenue & 100K+ monthly active user traffic**.
- Technologies Used: **Java, Spring MVC Framework, Ruby on Rails, JavaScript, Python, React.js, Docker, AWS**

### Undergraduate Researcher - Real Time Embedded Systems

May 2013 - Jan 2016

#### Sardar Patel Institute of Technology

- Implemented & Field-tested **professor's Ph.D. thesis** on a Discrete Time Digital Control System & developed a **Real-Time Operating System in C++**.
- Also developed a firmware for **ARM Processor & Digital Signal Processor** for the industry-sponsored research project

## PROJECTS

### Quora Prototype: Scalable Q & A Forum [NodeJS, ReactJS, Redux, Kafka, MongoDB, Redis, AWS EC2, Load Balancer]

- Developed replica of Quora, an highly **scalable & distributed system** with all features of quora.com using **NodeJS**.
- Optimized the application for **low latency performance** by using Redis Cache & Connection-Pooling & deployed on AWS EC2 using auto scaling elastic **load balancers** to respond to **10000 queries/sec** & ensured high availability.
- Implemented **Kafka queues** to buffer the Clickstream analytics requests.
- Created a seamless Frontend User Interface using **React.JS**.

### Starbucks Mock Console Application in JAVA [JAVA, Gradle]

- Developed a console app **using JAVA J2EE** to simulate Starbuck's mock mobile app by implementing Design patterns.
- Focused on code quality and clean code using design patterns such as **Observer, Command and State design patterns**.
- Used Gradle and **performed extensive JUnit testing**.

### Bank Accounting System in NodeJS [NodeJS, Docker, AWS EC2, Load Balancer]

- Built a banking system simulation in **Nodejs** by creating **RESTful services** for account management & transactions.
- Deployed the application on **Autoscaled EC2 cluster** and **implemented a load balancer (ELB)** for fault tolerance.
- Containerized the application using **Docker**, and **created a CI pipeline using Jenkins**.

### Learning Management System With Serverless Web Application Using AWS LAMBDA [NodeJs, DynamoDB]

- Developed Learning management system for students & instructors **Serverless web application** using **AWS Lambda**.
- Used DynamoDB as a database & **API gateway** for API triggers.