

**OBJECTIVE**

Seeking a challenging full-time position in software development.

**EDUCATION**

|   |                           |                |                            |
|---|---------------------------|----------------|----------------------------|
| Masters, Software Engineering   | San Jose State University | CGPA: 3.90/4.0 | <b>Expected May 2019</b>   |
| <i>Relevant Coursework:</i> Distributed Systems, Cloud Computing, Large Scale Analytics, Virtualization Technologies. |                           |                |                            |
| Bachelors, Information Technology   | AKGEC, Ghaziabad          | CGPA: 3.58/4.0 | <b>Jun 2010 – Jun 2014</b> |
| <i>Relevant Coursework:</i> Database Systems, Data Structures & Algorithms, Recommendation Systems.                   |                           |                |                            |

**TECHNICAL SKILLS**

- **Languages** Java, JavaScript, Python, C, Go, HTML5, CSS, PL/SQL, XML
- **Frameworks** Node.js, React.js, Redux, Express.js, AWS, Passport.js, jQuery, JMeter, Mocha, Twitter Bootstrap, Selenium, Apache Kafka, JWT, Spring Boot, Apache Camel, Apache Spark, TestNG
- **Operating Systems** Windows, Linux, Mac OS X
- **Databases** SQL Server, Oracle 11g, MySQL, MongoDB, SQLite, DB2, Redis, Riak, Cassandra
- **Virtualization** Docker, Amazon Web Services (AWS), Heroku

**PROFESSIONAL EXPERIENCE**

- Walmart Labs (Software Engineer Intern)** **June 2018 – Aug 2018**
- Significantly improved response times of catalog REST API endpoints using advanced Java 8 primitives like parallel streams, ForkJoin etc.
  - Implemented business rule-engine using Apache Camel and Drools to trigger relevant workflows in the shared item setup platform.
  - Implemented data pipeline to pull data from legacy DB2 database, published denormalized data to Kafka message bus and persisted the data in Cassandra.
- Tata Consultancy Services (Systems Engineer)** **Sep 2014 – June 2017**
- Developed an Extract, Transform, Load (ETL) batch job to enrich ecommerce product catalog for US based client, CVS Pharmacy.
  - Implemented master-slave replication using Oracle GoldenGate topologies, to achieve load balancing and high availability across multiple data centers for the main relational database.
  - Learned database techniques like index based query optimization and schema design using entity relationship diagram (ERD).

**SOFTWARE PROJECTS**

- Prototype of Kayak** **Mar 2018 – Apr 2018**
- Architected a highly scalable MERN stack web application to search and book flights, hotels and cars.
  - Implemented business intelligence and reporting dashboards using react-chartjs-2.js to monitor sales and derive insights from recorded user activities.
  - Used Apache Kafka for near real-time ingestion of user activity event data in background processing jobs.
  - Persisted sales transaction data in MySQL and rich flight, hotel, car data in MongoDB collections.
- VR-Tube** **Mar 2018 – Apr 2018**
- Created a web platform where users can create, share and participate in virtual reality experiences.
  - Used A-Frame for setting up the VR experience, Node.js as the backend server, MongoDB and MySQL as the backend databases. Used JSON Web Tokens (JWT) for session management.
- Multi-tenant Starbucks Application** **Feb 2018 – Mar 2018**
- Developed a fault tolerant cloud-scale web application with front-end hosted on Heroku, Kong API Gateway to route requests and backend micro-services hosted on Amazon Elastic Container Service (ECS).
  - Created a 5-node MongoDB cluster with master-slave replication to make the system highly available and eventually consistent even in case of network partition.
- Prototype of Dropbox** **Aug 2017 – Oct 2017**
- Developed a Dropbox prototype with features like file management, user authentication, user activity tracking etc.
  - Used MySQL in backend and designed the database schema using entity relationship diagram (ERD) principles.
  - Implemented REST API endpoints using Express framework and built the frontend using React.js and Redux.
- Connection Pooling** **Aug 2017 – Oct 2017**
- Developed a JavaScript connection pooling library to reuse connections and improve application performance.
  - Used synchronization primitives like counting semaphores to control access to the connection pool.