

Sneha Patil

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EDUCATION

MS in Software Engineering, San Jose State University (GPA 3.55/4.0)

Dec '20

BS in Computer Science, Poojya Dodappa Appa College of Engineering (GPA 3.56/4.0)

May '16

PROFESSIONAL EXPERIENCE

Programmer Analyst

Jun '16 – Dec '18

Cognizant Technology Solutions

Bengaluru, India

- Implemented Physical MDM EJB service and created 5 test suits of 43 test cases each for end-to-end testing.
 - Reduced developer interdependency and improved productivity by 20% with a data extension service enabling direct customer data access to SOA developers.
 - Supervised a POC titled 4 Step Strategy Incremental Updates using Hive to load data from RDBMS to Hive tables.
 - Executed a POC on Twitter data analysis to extract top 10 user tweets using Flume, HDFS, Hive and Sqoop.
 - Trained and supervised new team members resulting in quality deliverables and consistent client satisfaction.
- Tools & Technologies – Java, IBM Infosphere, MDM Workbench, RAD, Hadoop, Hive, MapReduce, Sqoop, SQL Server*

ACADEMIC PROJECTS

OpenHome - A home sharing web application

Nov '19

- Developed a prototype of Airbnb using Spring MVC and React.js with 10+ management features for both user and admin like booking, property posting, rescheduling, and handling transactions with email notification support.
 - Achieved efficient user authentication using Google OAuth, persistence using JPA via Spring Hibernate on Amazon RDS and resolved cross-cutting concerns by implementing aspect-oriented programming on service layers.
- Tools & Technologies – JavaScript, React.js, Spring MVC, Spring Hibernate, Spring AOP, Firebase, Amazon RDS*

Quora Prototype Simulation

May '19

- Designed a multi-tier Quora replica with REST APIs distributed across 10 servers and 2 types of databases.
 - Improved application scalability and enabled fault tolerance to sustain 10,000 concurrent users.
 - Increased application throughput by 64% and reduced latency by 48% using Redis cache, DB connection pooling and Apache Kafka.
- Tools & Technologies – JavaScript, React.js, Node.js, Express.js, MongoDB, Apache Kafka, Redis, Amazon ELB, EC2*

EXTRACURRICULAR PROJECTS

Amazon Clone

Dec '20

- Built a clone of Amazon web app using React Hooks, React Context API, Express server with firebase cloud functions and Firestore database connectivity. Hosted the application on firebase server for availability.
 - Accomplished fully functional real-time shopping cart, authorized payment using Stripe API & user authentication.
- Tools & Technologies – JavaScript, React Hooks, Context API, Firebase, Firestore, Stripe API*

TechiesTown – A Flask based web application for technical bloggers

July '20

- Fabricated a web app supporting 10+ features like pagination, Google auth, password reset & custom error pages.
 - Aailed batch load of user posts from JSON file into the database supporting CRUD operations using python script.
- Tools & Technologies – Python, Flask, SQLite, SQLAlchemy*

TECHNICAL SKILLS

Languages

Python, Java, JavaScript, C, C++

Web Technologies

Node.js, React.js, Redux, Flask, Spring MVC, AOP, HTML5, CSS

Databases

MySQL, Oracle, MongoDB

Big Data/ML/DL

Hadoop, MapReduce, Hive, Sqoop, Sklearn, NumPy, Pandas, Matplotlib

Cloud Tools

Amazon AWS (S3, EC2, ELB, RDS)

Frameworks & Version Control

JMeter, Mocha, GitHub, Chrome Developer Console