Sneha Patil

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EDUCATION

MS in Software Engineering, San Jose State University (GPA 3.55/4.0) — *Jan '19 - Dec '20*

BS in Computer Science, Poojya Dodappa Appa College of Engineering (GPA 3.56/4.0) — *Aug '12 - May '16*

PROFESSIONAL EXPERIENCE

Software Engineer *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.
- Developed frontend using HTML/CSS for a platform that enables Data Stewards to retrieve customer information with 30 sec lower response time over traditional mechanism.
- 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 *Oct '19 – Dec'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 Application Simulation *Feb '19 – Apr'19*

- Designed a multi-tier, scalable, 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

PERSONAL PROJECTS

Amazon Web Application *Nov'20 - 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 *May '20 - July '20*

- Fabricated a web app supporting 10+ features like pagination, Google auth, password reset & custom error pages.
- Availed 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

Programming Languages:	Python, Java, JavaScript, C, C++
Web Technologies:	NodeJS, ReactJS, RESTful APIs, Redux, HTML/DOM, CSS, XML, JSON, Kafka
Databases:	MySQL, Oracle, MongoDB
Big Data/ML/DL:	Hadoop, MapReduce, Hive, Sqoop, Scikit-learn, NumPy, Pandas, Matplotlib
Cloud Tools:	Amazon AWS (S3, EC2, ELB, RDS)
Frameworks & Tools:	Flask, Spring MVC, JPA, Hibernate, JUnit, Mocha, Git, Chrome Developer Console