Chaitanya Khoje

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An avid programmer, fascinated in discovering simple and elegant solutions to complex problems. Well versed in data structures, algorithms. Proficient in Java, SQL, Python with an insatiable hunger for new knowledge.
Loves to write clean and reusable code. Perseverant. Adaptable. Detail-oriented.

EDUCATION

Master of Science (MS) in Computer Science, SUNY - Binghamton University, NY   *Aug 2017 - May 2019*
GPA: 3.6/4.0
Distributed Systems, Web Programming, Design Patterns (using Java), Algorithms, Database Systems.

Bachelor of Engineering (BE) in Computers, Pune University, India   *Aug 2011 - May 2016*
GPA: 3.5/4.0

SKILLS

Languages:	Java 7 & 8, SQL, Python, JavaScript, VBA, PHP, C#, C++, CSS, Shell scripting.
Technologies:	Spring, Spring-Boot, Hibernate, JPA, AOP, Mockito, Kafka, Thrift, Ant, Google Protocol buffers, Apache Tomcat, MongoDB, Oracle DB, Maven, node.js, Docker, React.js, express.js, XML, HTML5.
Tools:	IntelliJ, PyCharm, VS Code, Jenkins, Git, Vim, bash, Oracle SQL Developer, MS-SQL Server, MS-Access, C-Lion, Eclipse, Linux CLI, GitHub, Bitbucket, GitLab, Selenium.

WORK EXPERIENCE

SUNY - Binghamton University   Binghamton, NY
Software Engineer(volunteer)   *Aug 2019 - present*
Developing web applications built on Spring MVC, Hibernate, with a MySQL database.

Thinker's Hat   Pune, India
Software Developer   *Nov 2016 - Jun 2017*
Data-driven production analytics, planning, reporting and inventory management applications.
Brainstormed and designed relational data models. Developed code and performed unit and integration tests.
Production planner:
- A production planning software for dynamic machine-level schedules generated on-demand, with projections of on-time/late deliveries, stock shortages.
- Developed automated production dashboards & detailed reports enabling clients to understand machine efficiencies, quality performance and manpower productivity.

PROJECTS

Amazon recommendation system (Java, Python, Apache Kafka, Zookeeper, Sentiment Analysis, Mockito)
- Product recommendation system powered by different techniques like collaborative filtering, product-to-product relations, content-based recommendations, along with a Kafka cluster to handle queuing of user review data and a python sentiment analysis module for categorizing user opinions into positive/negative/neutral.

Blog-posts (Java, Mockito, REST APIs, Spring Boot, Guava cache, Selenium WebDriver)
- An independently built Spring Boot RESTful application. Fetches JSON data asynchronously from a remote API on different routes using query params, caches responses using Guava's cache loader.

Distributed banking application (Java, Multi-threading, Google Protocol buffers)
- A multi-threaded application to record a consistent global state of an asynchronous system. Consists of multiple branches talking to each other using protocol buffers.

Key-Value Store with configurable consistency (Java, Google Protocol buffers)
- An eventually consistent, distributed, fault-tolerant, key-value in-memory database.
- Implements read-repair & hinted-handoff to reduce read-write inconsistencies between multiple nodes/databases.

Chord Distributed Hash Table: A distributed key lookup protocol for peer-to-peer applications with 256-bit keys.

Dynamic search engine web application (JavaScript, node.js, express.js, AXIOS, React.js, REST APIs, MongoDB)
- A dynamic single web page application which accesses remote web services directly from the browser using AXIOS to search for non-noise words from a set of documents stored in a MongoDB database.