DIXIT D. PATEL

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Professional Experience

Software Engineer   **Rakuten Inc, Tokyo**   **Oct 2014-July 2016**

Coupon Search Project (Java, PHP)
- Designed and Implemented new API and Batch jobs to handle Coupon Search Data
- Implemented a PHP module on web portal that allows users to search Items for their acquired Coupons. This page contributed to the GMS of Rakuten Ichiba marketplace.

Smart Coupon System (Java)
- Implemented a new Batch to report Acquisition and Use number to External Services
- Benchmark Testing to analyze API performance with one-year data growth and to tune Database performance to increase query throughput.

Coupon Reform Project (Java)
- Re-Implemented core API's of the system to model it for Cassandra Data Store. Tasks included: Data modeling, Multi-node cluster setup
- Conducted system analysis to understand feasibility with Oracle Exadata and also did benchmark testing on an internal Oracle environment.

Non-Project Tasks
- Implemented Memcache Solution for User session management on an internal Coupon Management Tool used by 40 services within Rakuten
- Improved performance of Search API on Coupon Management Tool to reduce the response time by 15 %
- Handled technical communication between an outsourcing company for upgrading PHP framework
- Wrote documentation for a Global Coupon Package used by several overseas team

Education

University of Mumbai   **Veermata Jijabai Technological Institute**   **June 2010-May 2014**

- Bachelor of Technology in Computer Engineering.
- GPA [*First Class*] : 8.3/10 Major: 8.6/10

Selected Projects

- **News-Hub, web-based News aggregation application**   *[Team of 4]*
  Applied ML-techniques to group news articles from the web and cluster, classify and rank them according to their similarity.
- **Online Job Portal**   *[Team of 3]*
  The project focused on building an online job hunting website allowing users to search and apply for job and internship opportunities. Developed as part of coursework in Database systems and Web technology
- **Travel Friendly**
  Developed a web application in PHP that provides travel recommendation to Rakuten Users based on their Social Networks. Used Facebook's graph API and MySQL database
- **Music-ML**
  Built a python application that generates new music through N-Gram modeling and Clustering/Classification over chords/notes from a song file. Used Music21 for data extraction and Musescore for dynamic playback

Leadership Experience

- Finance Head for a national level technical event Technovanza 2013 held annually at V.J.T.I
- Student Co-ordinator for Computer Society of India at V.J.T.I.
- Sponsorship Manager for Technovanza 2012
- Cricket team captain for Computer Department. Won 2 silver medals [2013,2014]

Languages and Technologies

- Java, C++, PHP, Python, JavaScript
- Subversion, Git
- Spring, Apache Lucene, Elasticsearch, JMeter, Kibana, Docker
- Certification: Stanford Machine Learning [*Coursera*]