Niloufar Hosseini Pour

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EXPERIENCE

- **Teradata**   El Segundo, CA

  Senior Software Engineer   *Oct 2017 - Present*

    - Developed "Automatic Schema Recommendation" API for CSV/JSON/Parquet files on cloud object storage data lakes such as AWS, Azure and Google cloud storage.

    - Worked in a team of 3 for the Autoschema API feature and delivered more than 40% of the content.

    - Improved query elapsed time and CPU time by 60% by using statistics and sampling methods.

    - Developed "Autonomous Database" feature, which will automatically recommend table schema, primary key, foreign key and indexes given a CSV file.

    - Developed feature tests and created documentation on test and development operations.

    - Analyzed, debugged and fixed bugs related to different features of query optimizer, including Optimizing UNION ALL Join Queries, Path Filtering optimization in Native Object Store, etc.

    - Joined Frontline team and triaged issues sent by customers and testing teams. provided analysis to effectively resolve the issue and logged reproduction steps, and descriptions for defect tracking..

    - Mentored new hires and interns. Provided guidance and constructive feedback to them. Shared my expertise and skills with my mentees willingly.

- **ESRI**   Redlands, CA

  Software Engineer in Test Intern   *Jun 2017 - Sep 2017*

    - Wrote test automation scripts for UI testing on multiple platforms (IOS,Android,Mac,etc.).

    - Integrated automation scripts on Jenkins (Continuous Integration server) for batch run of the scripts.

- **University of California Riverside**   Riverside, CA

  Research Assistant   *Apr 2016 - Mar 2017*

    - Developed a robust multi-threaded web crawler with strong solutions against spider blocking sites to get information related to real estate.(Crawled 10+ million records in the first cycle.)

    - Designed an appropriate schema on MySQL database to insert and retrieve the crawled data in an efficient way.

    - Used Google Geocoding API, Google Places API and Yahoo Finance API to enrich data with more accurate information for analysis.

    - Visualized results on maps using Google Maps API and analyzed the impact of different factors on property values.

- **University of California Riverside**   Riverside, CA

  Teaching Assistant   *Jan 2016 - Dec 2016*

    - Taught C++ programming concepts and helped undergraduate students with their lab work and programming assignments during lab sessions and office hours.

    - Managed 100+ students by creating an engaging learning environment and extending student discussion beyond the classroom via piazza learning tool.

    - Graded midterm and final exams.

EDUCATION

- **Master of Science in Computer Science**   Sep 2015 - Mar 2017

  University of California Riverside. GPA: 3.9   *Riverside, CA*

- **Bachelor of Science in Computer Science**   Sep 2010 - Jun 2014

  Amirkabir University of Technology. GPA: 3.5 (First Class Honours)   *Tehran, Iran*

Projects

- **Social Network Search Engine using Java**: Oct 2016 - Dec 2016
  - Used the Twitter Streaming API to collect 5 GB geolocated tweets and implemented multithreaded program to get title of tweets using jsoup.
  - Built index on files using Apache Lucene and created a Web-based search interface using JSP. Visualized results on maps using Google Maps API.

- **Content Delivery Network (CDN) Latency Analysis using Python**: Apr 2016 - Jun 2016
  - Collected 10 CDNs across the US using Microsoft Azure cloud computing platform and selected 100 universities from US as candidate points.
  - Collected ping time from each CDN to all candidates by running a python script and analyzed where to add a new CDN to minimize latency.

- **Data Mining and Object Recognition using MATLAB**: Jan 2016 - Mar 2016
  - Identified RGB color space on the Google satellite images as training images.
  - Classifed objects as pool or not pool using K nearest neighbor classifier with 95% accuracy.

- **Big Data Analysis with Hadoop using Java**: Oct 2015 - Dec 2015
  - Used large-scale US weather stations datasets, collected over a 4-year period.
  - Designed and implemented the application using MapReduce and figured out which state has the most stable temperature.

Technical Skills

- **Languages**: C, C++, Java, Python

- **Systems/Packages**: MySQL, PostgreSQL, Lucene, Hadoop.

- **Tools**: Eclipse, MATLAB, Git, Selenium WebDriver.

- **Selected Coursework:** Data mining techniques, Database management systems, Machine learning, Information retrieval and web search, Advanced operating systems, Design and analysis of algorithms, Testing and verification techniques in software engineering, Advanced computer networks.