VIBHAV GUPTA

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EXPERIENCE

Software Engineer (Freelance)

Jul '19 - Nov '19

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- Collect IP data from different sources (Registry, Traceroute) and understand synthesis process to assign locations.
- Develop Label Mapper to assign labels to hostnames which can be traced to city level.

Software Engineer, Integra Technologies, New York, NY

Nov '16 - Dec '18

- Gather company data from automotive and financial industry, perform database transactions handling data.
- Scale infrastructure, diversify resources enhancing portability and develop backend components.
- Develop application including analysis, designing and coding using Java. Made application robust and concurrent using fine grain locking techniques.
- Develop new warehouse, create data models and optimize database. Enhanced database performance by 15%.

Software Engineer (Intern), AG Technologies, Dallas, TX

Oct '15 - Apr '16

- Develop application utilizing MVC framework using Java.
- · Produce web services that include REST.

TECHNICAL SKILLS

Programming: C/C++, Java, C#, Python, Matlab, JavaScript, HTML, XML

Software/Tools: Apache (Lucene, Solr, Tomcat), Eclipse, Oracle SQL Developer, AWS

Databases: SQL Server, MySQL, Oracle Database, NoSQL, MongoDB

Operating System: Linux, OSX

ACADEMIC PROJECTS

Relational Query Engine, Database Systems

- Implemented SQL query evaluator with support for Select, Project, Join, Union, and Aggregate operations.
- Evaluated Select statements on provided data, and produced output in a standardized form.
- Used JSQL Parser to convert human-readable string into structured representation (query).

Wikipedia Indexer, Information Retrieval

- Performed parsing on Wikipedia corpus using XML and Wikipedia parsing techniques.
- Performed Tokenization for Stop-Word removal, corrections including Whitespace, Camel Case, Hyphen, Dielectrics, Punctuation, Stemmer, Accent and more.
- Programmed to index document in Map data structure.

Multisource Search System, Information Retrieval

- Implemented "location based" multi-source search system using three cores in Solr.
- Mapped about 400 countries and cities on World Political Map to indicate location of place on map when searched.
- Implemented features including Auto Suggestion and Spell Correction.

Concurrency Model, Programming Languages

- Implemented concurrency technique including Locks, Synchronization, STM, Futures and Message Passing.
- Analyzed compiler optimization and Memory Model impact on Synchronization.

EDUCATION

Master of Science in Computer Science, (2015), University at Buffalo, Buffalo, NY

- > GPA: 3.1, with courses in Algorithm Design, Databases, Data Mining, Information Retrieval, Java Concurrency & Memory Model, Computer Security
- Activities: Vice President, Computer Science Graduate Student Association; Secretary, Creekside and Flickinger Village Council Committee

Bachelor of Technology in Computer Science, (2013), Amity Education Group, Noida, India

Activities: Organized Linux Workshop in association with IIT Bombay; Coordinator, Organizing Committee of Annual Cultural and Technical Fest 2011; Amity Linux Assistance Sapience (ALiAS); Amity Physics Club GPA: 3.84

AWARDS

- 10th place in Bloomberg Hackathon.
- Gold Merit in International Informatics Olympiad.
- Top 10% of participants in International Mathematics Olympiad.