Umang Sardesai

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EDUCATION

University of California, Santa Cruz, USA   **Dec 2017**
Masters in Computer Science. (GPA – 3.5/4.0)
Courses: *Data Mining and Statistical Learning, Distributed Systems, Design & Implementation of DB Systems, Data Visualization.*

Dwarkadas J. Sanghvi College of Engineering, University of Mumbai, India   **May 2014**
Bachelor of Engineering in Computer Science with *First Class Honors.*
Courses: *Data Structures, Database Systems, Data Warehousing & Mining, Web Engineering, Soft Computing, Software Engineering.*

PROFESSIONAL EXPERIENCE

University of California, Santa Cruz   **Sept 2016 to Dec 2016**
Teaching Assistant in Data Structures
- Entrusted with the responsibility of teaching and mentoring students in labs and holding separate discussions.
- Wrote test cases in BASH that auto graded students' assignments.

BrowserStack, Mumbai   **June 2014 to July 2016**
Product Specialist
- Designed and built a suite of scripts and utilities in Java that helped users get on-board with BrowserStack.
  (Github link: https://github.com/UmangSardesai)
- Interacted with clients from Fortune 500 companies such as Mckesson, Cisco, Microsoft, Equifax and creators of famous open source projects such as jQuery and ensured they are running their automated tests smoothly on BrowserStack.
- Integrated various Selenium and JavaScript Testing frameworks like Protractor, Codeception, Behat - Mink, Ember – QUnit with BrowserStack which in turn gave me the opportunity to work on languages such as Node.js, Ruby, Python and PHP.
- Solved complex scenarios where users were testing behind a proxy and their requests were unable to reach BrowserStack.

PROJECTS AND PAPERS

Implementing Lambda Architecture to track real-time updates   **Jan 2017 to March 2017**
- Lambda Architecture consists of a batch and a real-time layer to process historical and real-time data.
- Apache Flume to aggregate data at batch layer and Apache Storm for real time data.
- Apache Kafka for data ingestion and HDFS for data dump from Flume. Executed MapReduce jobs for batch analysis.

Scalable Fault-Tolerant Key Value Store using Docker and Flask   **Jan 2017 to March 2017**
- A distributed Key Value Store with data partitioning to provide scalability.
- Each partition will be replicated to provide fault tolerance.

Review Mining using Modified NLP (Bachelors' Final Year project)   **May 2014**
- Authored a paper which was published by IJRTE in their May 2014 Journal. (View Paper ↗)
- The Review Mining System extracts reviews from Flipkart (e-commerce website), analyses them sentence by sentence and summarizes the sentiment expressed for each aspect as well as the overall product.
- Used Python's Beautifulsoup API for Data Extraction and Google Charts API for summarization.

Comparison of Indian States using D3.js   **Jan 2017 to March 2017**
- Comparison of Indian Census stats visualized using D3.js (View Visualization ↗)
- Other UI elements implemented in Bootstrap.

Twitter like messaging service using Spring   **Feb 2017**
- Implemented RESTful API with Basic HTTP Auth in Spring Boot with endpoints like follow, unfollow, get Tweet feed etc.
- Tweets were stored in H2, an in-memory SQL database.

Migration of data from AutoCad files into a Spatio-Temporal Database   **May 2014**
- Extracted data from AutoCad (.plt) files and incorporated it in a Moving Object Database (MOD).
- Used PostGIS plugin and created an interface to execute PostgreSQL queries on the Spatio-Temporal data.

SKILLS

- Programming languages: Java (Proficient), Python, Bash.
- Web languages: HTML, CSS3, JavaScript, Bootstrap, D3.js
- Database and other tools: MySQL, PostgreSQL, Docker, Git.

TECHNICAL AND EXTRA-CURRICULAR ACHIEVEMENTS

- Headed the Google Ambassador team and managed all the events that took place during Google Day. Co-created the website – (https://sites.google.com/a/djsce.edu.in/djgoogle/) for DJ Sanghvi's Google chapter.
- Completed Google's "Making sense of Data" course in April 2014.
- Scored 95 percentile (Top 5% all over India) in NIIT's 9th National IT Aptitude test held in Feb 2013.
- Built a warring - Robot and secured Runner-up position in an inter-college RoboWars event.