

Umang Sardesai

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EDUCATION

University of California, Santa Cruz, USA

Dec '17

Masters in Computer Science. (GPA – 3.6/4.0)

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 '14

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 '16 - Dec '16

Teaching Assistant in Data Structures

- Entrusted with the responsibility of teaching and mentoring students in labs and holding separate discussions
- Developed test cases in BASH that auto graded students' assignments

BrowserStack, Mumbai

June '14 - July '16

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>)
- Co-ordinated 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 and Ruby
- 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 '17 - Mar '17

- Lambda Architecture consists of a batch and a real-time layer to process historical and real-time data
- Used Apache Kafka for data ingestion, Apache Flume to aggregate data and Apache Storm for streaming real time data
- Incorporated Hadoop eco-system into the project by using HDFS for data dump and running MapReduce jobs at batch layer

Scalable Fault-Tolerant Key Value Store using Docker and Flask

Jan '17 - Mar '17

- Implemented a distributed Key Value Store with data partitioning to provide scalability
- Each partition was replicated to provide fault tolerance

Review Mining using Modified NLP (Bachelors' Final Year project)

May '14

- Authored a paper 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 '17 - Mar '17

- Comparison of Indian Census stats visualized using D3.js ([View Visualization ↗](#))
- Other UI elements implemented in Bootstrap

Developed Twitter like messaging service using Spring

Feb '17

- 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 '14

- Extracted data from AutoCad (.plt) files and incorporated it into 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

- Led the Google Ambassador team and managed all the events 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