

Santosh Kumar Aenugu

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EDUCATION

Oregon State University, Corvallis, OR

September 2017 - June 2019

Major: Computer Science, M.Eng (Overall GPA 3.6/4.0)

Coursework: Database Management Systems, Software Engineering, Computer Architecture, Theory of Computation, Distributed Systems, Cyber-Security, Artificial Intelligence, Deep Learning

Birla Institute of Technology and Science, India

August 2013 – May 2017

Coursework: Machine Learning, Data Structures, Algorithms, Operating Systems, Computer Networks, Cryptography

SKILLS

Languages: Python, C, JavaScript, Java, C++, SQL

Technologies: Hadoop (HDFS, MapReduce), HTML/CSS, Git, Unix

PROFESSIONAL EXPERIENCE

Oregon State University

September 2017 – June 2019

1. Developed web App for Thumbnail Preserving Encryption (TPE) of images in 40 - 48 seconds using JavaScript
2. Developed Multithreaded Android App for enhancing performance of TPE to 6 - 10 seconds using Java
3. Improved performance to cut run-time by 75% in comparison to single-threaded web-app
4. Integrated authentication features of the application using Firebase Google API
5. Handled photo features using Bitmaps in Java for manipulating pixel data
6. Followed best quality practices of Test- Driven Development (TDD) using unit tests, integration tests

PROJECTS

Course Review System (rkbeavs.me/ryc)

1. Developed Full Stack Web application to read and write reviews for 500+ courses at OSU
2. Web Scraped the courses related data using Python libraries (Pandas, numpy, beautiful soup)
3. Granted users access by authenticating their respective OSU login credentials and allowing anonymity
4. Followed tech stack of HTML5, CSS3, Bootstrap, jQuery, JavaScript (Node.js, React), AJAX, Restful Webservices
5. Practiced Scrum based Agile methods collaborating with Git for code reviews and commits
6. Responsible for managing the team to follow agile methodologies as a ScrumMaster for 1st Sprint

MapReduce Engine

1. Ran MapReduce algorithm with master and worker nodes on single-node cluster in Hadoop HDFS using Jython
2. Extracted word and pair counts of large datasets using streaming API to pipeline data from mapper to reducer

Raft Consensus Algorithm

1. Implemented Raft Consensus Algorithm for fault-tolerant asynchronous distributed systems in Python
2. Developed leader election, re-election, log-append, log-replication and log-matching properties

HONORS AND AWARDS

1. Won Bronze Medal in Chess during National Sports Fest (Arena)
2. Won Honorary award from EECS(Electrical and Computer Science Department) at Oregon State University