

Santosh Kumar Aenugu
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EDUCATION

Oregon State University, Corvallis, OR Master of Engineering, Computer Science. GPA 3.6/4.0	September 2017 - June 2019
Birla Institute of Technology and Science, India Bachelor of Engineering, Civil Engineering. GPA 7.61/10.0	August 2013 – May 2017

SKILLS

(Proficient) C, C++, Python, Unix, Git, Java, JavaScript, SQL, R
(Familiar) MATLAB, Hadoop (HDFS, MapReduce), HTML/CSS, NodeJS, ReactJS, jQuery, Bootstrap

PROFESSIONAL EXPERIENCE

Graduate Research Assistant, Oregon State University <ul style="list-style-type: none">Developed a web plugin for Thumbnail Preserving Encryption (TPE) of imagesSwitched to Multithreaded Android App for better performance of TPEDeveloped authentication and photo handling features using Google APIs (Firebase and Photos API)Improved performance reducing the run-time by 75% in comparison to single-threaded web-pluginFollowed best quality practices of Test- Driven Development using unit tests, integration testsLeveraged knowledge in Java, Android Development, XML, JavaScript, jQuery, HTML/CSS	September 2017 – June 2019
Software Engineering Intern, Nalco <ul style="list-style-type: none">Implemented the Graphical User Interface (GUI) of CHP's stacker - reclaimers using JavaImproved the maintainability of existing applications by refactoring modulesLeveraged knowledge in Java, Swing, UI/UX development	April 2015 – September 2015

PROJECTS

Raft Consensus Algorithm <ul style="list-style-type: none">Implemented Raft Consensus Algorithm for fault-tolerant asynchronous distributed systemsDeveloped leader election, re-election, log-append, log-replication and log-matching properties using Python	Jan 2019 – March 2019
MapReduce Engine <ul style="list-style-type: none">Implemented MapReduce with master and worker nodes for map-reduce operations on distributed file systemExtracted word counts and pair counts for large datasets using Jython on Hadoop HDFS	January 2019 – March 2019
Course Review System <ul style="list-style-type: none">Developed Web app to allow users to read/ write reviews for courses at OSUAuthenticated users through their respective OSU login credentialsPracticed Scrum based Agile methods to collaborate with team using Git for code reviews and commitsScrumMaster for 1st Sprint, developer for the subsequent sprints (3 sprints of 2 weeks each)Used HTML/CSS, JavaScript, ReactJS, NodeJS, Bootstrap, jQuery, AJAX, Full Stack Web Development, Git	September 2018 – December 2018
Intelligent Agent for Anti-Chess <ul style="list-style-type: none">Developed an Intelligent Agent to play Anti-Chess using Monte-Carlo Tree Search for generating all possibilities at each stepSelected the best alternative at every step among all possibilities using Q-Learning policy for decision making	March 2018 – June 2018

HONORS AND AWARDS

- Won Bronze Medal in Chess during National Sports Fest (Arena, 2015)
- Won Honorary award from EECS(Electrical and Computer Science Department) at Oregon State University