ABOLI LAGAD
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EDUCATION

Master of Science, Computer Science, University of Southern California, LA, CA May 2018
- Coursework: Analysis of Algorithms, Computer Networks, Artificial Intelligence, Programming systems design, Information retrieval and web search engines, Operating systems, Web technologies, Databases

Bachelor of Engineering, Electronics and Telecommunication, University of Pune, India May 2014
- Co-authored "*Comparative implementation of DOA algorithms*"-International journal of engineering and management
- *Top* 4% in 120 students; Recipient of various *high academic performance* awards

EXPERIENCE

Yobs Technologies | Software Engineer intern | Los Angeles, CA Nov 2017–April 2018
- Working closely with 5-member Agile development team and ensuring timely deployment of each sprint
- Improved efficiencies by 5% by identifying bottlenecks and slow parts in Python code using profiler
- Developed automation testing tool in Node.js for periodic tests to ensure data integrity and scheduled in Jenkins

Knobull, Inc | Software Engineer intern | Los Angeles, CA Dec 2017–Feb 2018
- Worked as software engineer, to develop end-to-end design using Angular.js, Node.js, MongoDB, Express.js
- Implemented REST API's using Express framework to perform various HTTP requests and tested using postman
- Implemented authentication for validation and authorization of users for accessing/posting on web site using Node.js

IBM | Software Engineer | India Aug 2014–Jul 2016
- Developed & modified various database objects: PL/SQL procedures, triggers, indexes as a part of telecom project
- Reduced manual testing efforts by creating a GUI to enter data directly in databases using JavaScript, HTML
- Designed knowledge-based recommendation system to recommend promo packs based on likely used deals in JAVA
- Collaborated with cross-functional teams to integrate APIs/services using XML responses based on SOA web services
- Refactored and Optimized SQL queries, managed performance tuning by reducing CPU usages using explain plans
- Received *Deep Skills Award* for developing project specific critical skills in short period of time

Seia Solutions (Seia Inc. – Intuitive Analytics) | Internship | Volunteer Experience Dec 2013–May 2014
- Revamped the static website to responsive design using XML parsers (SAX/DOM), JavaScript, Bootstrap

ACADEMIC PROJECTS

- **Computer Networks project** – 1. Implemented instant messaging system using client-server architecture. Used TCP and UDP sockets for communication and multi-threading and multi-processing paradigms in C. 2. Computed shortest paths between routers in network using Bellman Ford algorithm in C++
- **Search Engine for news-site** - Crawled news web pages using web crawler (Crawler4j); Indexed them using Map/Reduce java job in Hadoop; Ranked them using Apache Solr-Lucene and provided Auto-correction, suggestions (Markov chains of n-grams in Java), snippets based on occurrence of search phrase
- **Artificial Intelligence projects | Python** – 1. Implemented Reversi(Othello) game using Alpha beta pruning to find next best move; 2. SAT encoder by generating Conjunctive normal form(CNF) sentences and WalkSAT, DPLL algorithms to find the satisfying solution if any; 3. Computed various probabilities in decision network to determine the best decision
- **Congress Information Search | Mobile development** - Developed Android application in Java (Android studio) for information in congress having legislature, Bills, Committees, and Favorites tabs by parsing JSON response from sunlight RESTfull API; Used PHP for server-side scripting, and hosted on AWS EC2 cloud

PERSONAL PROJECT

Autonomous Teaching System | Web applications
- Created web application for online coaching system, with a feature to avoid duplicate doubts being posted by students to a professor. Presented similar doubts already saved in system. Displayed suggestions using AngularJs, Javascript, HTML5, CSS, on Front End; AJAX to avoid page refresh, PHP on back end and RethinkDB(NoSQL) to save data

LANGUAGES, WEB TECHNOLOGIES, DATA AND OTHER TECHNICAL SKILLS

- Java, C, C++, Python, MatLab, Waterfall, Agile, Heroku, AWS, Git, JavaScript, PHP, CSS, Angular.Js, jQuery, MapReduce
- Bootstrap, AJAX, NodeJs, JSON, HTML5, Express.js, SQL, PL/SQL, MySQL, PostgreSQL, MVC, NoSQL
- Object-oriented programming/design, Data Structures, Distributed systems, Test-Driven development