AJAY VARDHAN BALAJI

15 North Beacon Street, #801, Allston, MA 02134

(857) 294-5124 ● ajyvardan@gmail.com ● ajayvardhan.com ● linkedin.com/in/ajayvardhanb/

SKILLS

Web Development:	AngularJS, Node.js, MEAN Stack, HTML5, CSS3, Bootstrap CSS, jQuery, RESTful API, Selenium
Programming Languages:	Python, Java, JavaScript, Scala, Bash, XML, Excel VBA
Database:	MySQL, MongoDB, Oracle, Access
Frameworks:	Hadoop, MapReduce, Apache Spark
AWS:	Lambda, API Gateway, CloudWatch, IAM, EMR

EXPERIENCE

Bola technologies, Boston — **January 2018 - Present**
Full Stack Developer

- Researched, designed and developed the core algorithm for the Question Answering system in Python and Javascript
- Developed multiple Alexa skills for Question Answering, Web Browsing, Web Automation etc.
- Automated web browsing using Selenium and Javascript to achieve user tasks using voice commands
- Scrapped web pages and created segments for websites to gather useful information from the page using Machine Learning

Northeastern University, Boston — **July 2016 – December 2016**
LMS Administrator Co-op – Northeastern University Global Network.

- Developed effective SQL scripts and queries to reduce the existing execution time by 40% to gather course information required by the faculty and staff.
- Automated course creation, report generation and various course related operations using Windows Bash and Excel VBA scripts in Blackboard and helped hundreds faculty and staff to save around 10 hours of manual work a week.

Tata Consultancy Services, Chennai, India — **July 2013 – July 2015**
Software Engineer (Client: Westpac)

- Designed web applications using AngularJS, Node.js, HTML, CSS and JavaScript in MVC architecture for users to efficiently query and access banking data.
- Modelled and built a web module to automatically generate reports reduced 20 man hours per week and eased the decision-making process.
- Optimized SQL queries and normalized tables to speed-up the retrieval of finance data by 30%.
- Monitored and managed 30 Unix servers (production, development, test and disaster recovery).

Won the **"Star Performer Award"** for my innovative and cost saving contributions to the web applications.

EDUCATION

Northeastern University, Boston, MA — **December 2017**
Master of Science in Computer Science, **GPA: 3.66**
Relevant Courses: Web Development, Algorithms, Parallel Data Processing using MapReduce, Information Retrieval, Database Management Systems, Artificial Intelligence
Graduate Teaching Assistant: Computer Science and its Applications

SASTRA University, Thanjavur, Tamil Nadu, India — **May 2013**
Bachelor's Degree in Information Technology, **GPA: 3.5**
Relevant Courses: Data Structures, Design and Analysis of Algorithms, Data Warehousing and Data Mining, Java Programming, Software Engineering

PROJECTS

NowWatching - *MEAN Stack and IMDB API* - git.io/vdmxG

- Developed a web application that allows users to share the movies they are currently watching to their followers and have a real-time discussion. Pulled the movie related information from IMDB API.

Web Crawler and Indexer – *Python* - git.io/vdYeq

- Implemented a focused and unfocused web crawler that crawls and downloads 1000s of web pages offline.
- Tokenized, indexed and ranked the collected corpus and used it to build an effective search engine.

PageRank using MapReduce – *JAVA, Scala, MapReduce and Spark* - git.io/vdYv9

- Cleansed and parsed ~10 years of Wikipedia pages including the links in each page.
- Calculated PageRank for all the pages using MapReduce and Spark programs by executing in Hadoop and AWS EMR.