

# VARSHA BOORA

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## EDUCATION

**Northeastern University – Boston, MA**

**August 2019 – May 2021**

**Masters of Science (M.S) in Information Systems**

**GPA : 3.62**

**Courses :** Object Oriented development and design patterns, Data Management and Database Design, Data Structures and Algorithms, Data Science Engineering, Advanced Big Data systems, Data Warehousing and Business Intelligence, Big Data Governance and Analytics, Advanced Data Science

**Gokaraju Rangaraju Institute of Engineering and Technology - Hyderabad, India**

**September 2014 – May 2018**

**Bachelors of Technology in Electronics and Computer Engineering**

**Courses :** Introduction to C, Data Structures and Algorithms, Web Development, Object-oriented development and design patterns

## EXPERIENCE

**Graduate Teaching Assistant - Northeastern University| Boston, MA**

**January 2021- May 2021**

- Mentored 30+ engineers in concepts of relational and non- relational database concepts in Oracle, optimizations and applications to drive business impact, conducted office hours to provide with written and verbal communications of feedback, monitored 10+ projects and built quizzes.

**Full-stack Developer Intern - SAP Ariba | Palo Alto, CA**

**June 2020 – September 2021**

- Written Restful APIs, converted SOAP calls into REST by developing operations for adding , deleting and updating IP and DNS records in Python, Golang which helped in saving ~500K\$ on a large scale deployment
- Automated infrastructure in Terraform, produced a custom provider, tested for peak load by adding 200 resources and reduced the time to 10 secs

**Machine Learning Engineer iXP Intern - SAP Micro project Learning**

- Customized flow of a python web application, delivered questions based on Zoom meeting Transcript input given from Flask UI, generated questions with NLP parts-of-speech, NLTK library and included a rewards to increase attention of attendees by 25 %

**Software Engineer - Cognizant Technology Solutions | DLF, Chennai, India**

**June 2018 – July 2019**

- Collaborated with globally distributed agile team of 7 to engineer a web server (RESTful APIs, Spring boot, oracle) and job shell for submission, profile storage, on querying on Hadoop cluster using tools including Pig, Hive, HBase, and Kafka , handled 8 services
- Utilized microservices architecture, backend in Java with REST , Spring-Boot, worked in continuous integration/deployment environments

**Hospital Management System : Cognizant Academy**

- Executed a Full-Stack Web-Application with MVC, aims to provide ability to automate patient's registration and maintain records upto 10,000 , programmed backend database of application used MySQL, frontend on HTML, CSS, JavaScript , JDBC deployed it on Apache Tomcat Server

## PROJECTS

**Insurance Plan Search Engine | RESTful APIs | Spring Boot | Elasticsearch | CRUD | Kibana**

**September 2020 – December 2020**

- Implemented a search engine and optimized query performance upto 35% implementing parent child relation on the JSON data, designed microservices architecture based Message queue to speed up the API retrieval from Redis, JPA , enhanced API security with OAuth

**IMDB Data Analysis and Data Pipeline | MySQL | SQL Server | Talend | Tableau | Power BI**

**October 2020 – December 2020**

- Led high-volume data processing for team of 3, to generate a data warehouse with ETL data pipeline to give personalized recommendations based on ratings, genres, modelled complete workflow to migrate 58.3M rows data to SQL Server and reduce the flow duration by 4 hours

**COVID – 19 Predictions on Stock and affected Population | Python| Machine Learning**

**January 2020 – May 2020**

- Worked on live data set to predict the covid count with 93% accuracy using Linear regression, SVM, Bayesian Ridge regression and compared the 2008 swine flu pandemic stocks to 2020 stocks and predicted its influence using Tensorflow library , ARIMA and LSTM

**AI Face Detection Application | React | Node.js | Machine Learning | PostgreSQL | Javascript**

**January 2020 – March 2020**

- Built a web application that performs Image Recognition with 98% accuracy , detects and verifies faces , deployed it in Heroku and created web server using Node.js, Express.js, database with PostgreSQL, application enables proctor to verify online examination

**Cellular Automata | Java development | Swing | OO design and Java| design patterns**

**September 2019 – December 2019**

- Simulated cells growth with multi-threading concepts, generates pattern growth generations based on input and neighborhood cells, customized user to control growth to about 500 % and pattern with Java Swing , represented UML diagram for component definition and flow.

## TECHNICAL SKILLS

<b>Programming Languages:</b>	C, Java , Go, Python, JavaScript, SQL
<b>Web Technologies:</b>	HTML, CSS , RESTful APIs, SOAP, XML, JSON, HTTP, TCP/IP
<b>Platforms:</b>	Jenkins ( CI/CD ) , JIRA/Confluence, Postman, Terraform, Kubernetes, YAML, Gitlab, Linux, Maven
<b>Frameworks:</b>	NumPy, SciPy, Python Pandas, Seaborn, cv2, Tensorflow, NodeJS, React, Spring Boot
<b>Databases:</b>	Oracle, MySQL, Postgres, MSSQL, Neo4j, Firestore, Redis, GraphQL APIs (NoSQL)
<b>Tools:</b>	Power BI, Tableau, Talend, Alteryx, ER Studio, Elasticsearch, Kibana, Kafka, Eclipse IDE
<b>Trainings:</b>	AWS Get Certified: AWS Cloud Developer at SAP, Summer 2021 Python Development
<b>Certification:</b>	AWS Certified Solutions Architect- Associate (Amazon Web Services)