

Ajay Goel

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EDUCATION

Northeastern University, Boston, MA

Jan 2018 – Apr 2020

College of Engineering, *Master of Science in Information Systems*

Related Courses: *Algorithms, Data Warehouse/BI, Web Development, Engineering of Big Data, Web Design, Network Structures Cloud Computing*

Dr. APJ Abdul Kalam University, Greater Noida, India

Jul 2011 – Jun 2015

Bachelor of Technology in Computer Science Engineering

Related Courses: *Data Structures in C++, Object Oriented Programming, Computer Networks*

TECHNICAL KNOWLEDGE

Programming Languages: Java, Python, PL/SQL, C#, C++

Databases: MySQL, Oracle, MongoDB, PostgreSQL, SQLite

Business Intelligence: Talend, SSIS, Alteryx, Power BI, Tableau, Jitterbit, Qlik Sense, Toad Data Modeler

CRM tool – Salesforce

Big Data Technologies: Hadoop, Apache PIG, Hive, MapReduce

Web Technologies: Angular 7, NodeJS, JavaScript, Spring, Hibernate

Cloud Technologies: Terraform, Cloud formation, AWS (VPC, Code Deploy, Lambda, EC2, S3, EMR), Google Cloud Platform, CircleCI

ACADEMIC PROJECTS

Cloud Based Recipe Management System integrated with CI/CD

Sep 2019 - Dec 2019

[Terraform, AWS Services, Node.JS, REST API, Express, Google Cloud Platform, Circle CI]

- Developed web application running on VPC for users to create, search and view recipe details with database and images stored in RDS and S3.
- Enforced Circle CI, Code Deploy, AMI, EC2, Load Balancers, Auto scaling groups, Cloud Watch, Lambda functions, SNS, SES to manage, deploy, test the application on the live domain purchased from Name cheap. Replicated everything on GCP.
- Commit on VCS(GitHub) will deploy the latest tested code in the live environment resulting in complete automated pipeline.

IOT based Home Management System

Jan 2018 - Apr 2018

[Java FX, Core Java, Java Swing]

- Devised management systems for homes, societies applying IOT concept using ecosystem model with object-oriented design
- Paramount tasks: grocery management, bill payment (electricity, water), parking management, wallet, security and maintenance can be completed automatically employing real time apps: Google mails, maps which resulted in 57% reduction in customer time in analysis of bills

Neural Networks: Face (Images), Digit Recognition (Excel data)

Jun 2018 - Aug 2018

[Java 8, Back Propagation Algorithm, Sigmoidal Function]

- Dataset of facial image, digits converted to binary form, trained neurons to predict output, Predicted 89% correctness of digits and 82% of faces
- Charted time series graphs to show confusion matrix of errors, weight change using Back Propagation - traversed 11000 digits, 45 facial images

Big Data Analysis - Airline Data Set [1987-2008]

Jun 2019 - Aug 2019

[Hadoop (Map Reduction), Java, Pig, Hive, HBase, Amazon EMR, Python, Tableau, Neo4j]

- Map Reduction using Filter pattern, Inverted Index, Data Organization, Top 10, XML creation using DOP, Min Max tuple in analyzing 120 million records of the airlines. Visualized the analysis using Tableau using Graph database + implemented recommendation system for flights(delays/time)

Restaurant Review Web Application

Jan 2019 - Apr 2019

[Angular 7, Node.JS, REST API, Bootstrap, MongoDB, JavaScript]

- Developed application for users to have portal to search, view restaurant details, integrated it with EatStreet API to retrieve restaurant details

WORK EXPERIENCE

HighRes BioSolutions, Beverly, US | Software Engineer

Aug 2019 - Dec 2019

[JavaScript | Flow | SQL Server | Power Bi | Salesforce]

- Built employee onboarding – offboarding flow which helps HR track all the stages of the access and prework before the employee joins team
- Designed Reports for the executive dashboards used by the leadership team. Implemented rules, workflows in Salesforce opportunities/Price

Northeastern University, Boston, US | Graduate Teaching Assistant

Sep 2018 - Current

[JAVA | Algorithms | Data Structures] [Best TA Award 2018]

- Tutored students through coursework by teaching Java concepts, sessions on algorithms and creating genetic/neural networks for academics

Tata Consultancy Services, Pune, India | Software Engineer

Nov 2015 - Dec 2017

[JAVA | PL/SQL | Informatica]

- Developed a mechanism operated on Java, PL/SQL for ensuring identity and access to associates. Yielded in decreasing supervisor's time by 40% to enable physical and logical access by automation of allocation cycle.
- Gained exposure to complete software development life cycle including the phases of designing, developing, testing, deployment and support
- Automated customer issue resolution service which reduced the load on business users by 60% and reduced tickets count by 25%