Akshay N Mahajanshetti

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EDUCATION

Northeastern University, Boston, MA (GPA : 3.6) Jan 2018 – Apr 2020
College of Engineering, *Master of Science in Information Systems*
Related Courses:, *Algorithms, Web Development Tools & Methods, Data Warehousing and BI, Network Structures & Cloud Computing, Web Design*

Nagarjuna College of Engineering & Technology, Bengaluru, India Aug 2010 – Jun 2014
Bachelor of Engineering in Information Science

TECHNICAL KNOWLEDGE

Programming Languages: Java, C#
Databases: MySQL, MSSQL, Oracle, PostgreSQL, MongoDB
Cloud technologies: Terraform, AWS Console, Google Cloud(GCP), AWS [RDS, S3, Code Deploy, AMI, EC2, Load Balancers, Auto-scaling, Cloud Watch, Lambda functions, SNS, SES], Circle CI.

ETL & Business Intelligence tools: Talend, SSIS, Alteryx, Tableau, PowerBI
Web Technologies & Frameworks: JavaScript, JSF, JSP, Spring Boot/ Spring MVC, Junit, JPA Hibernate, Angular 8, HTML, CSS
Web/Application Servers: Tomcat, WebSphere App Server(WAS 8.5)
Tools: SSMS, Visual Studio, Visual Studio Code, AWS, Github, Netbeans

WORK EXPERIENCE

AIR Worldwide [Boston, USA] | Software Engineer Co-op Jan 2019 – Aug 2019
[C# |.Net | Visual Studio Testing tool | MSSQL]

- Individually worked to improve code performance in the application ARC 2.0
- Worked closely with the team and attended many planning sessions on how to overcome certain design issues which existed in the previous versions of our applications
- Developed automation testing code using C# for a complete scenario named Combined Probabilistic Analysis in our application ARC 2.0
- Prepared SQL scripts, complex queries, functions, stored procedures in MS SQL to improve performance and deliver targeted solutions
- Worked in an Agile development environment during the lifetime of this project and used TFS for version control

Infosys Limited [Bengaluru, India] | Senior System Engineer Dec 2014 – Dec 2017
[JAVA | Spring MVC | JPA Hibernate | J2EE | MySQL]

- Developed new modules and improved the performance of the application as per the client's requirements
- Worked closely with the client to gather requirements and finalize designs for modules that were to be developed for the application
- Solved all compile time errors that occur due to changes in JDK version in a java application
- Worked on fixing existing security issues like Arbitrary file download, Clickjacking, Cross-Site Request Forgery, Session fixation
- Gained exposure to complete software development life cycle including the phases of designing, developing, testing and deployment

ACADEMIC PROJECTS

Cloud Based Recipe Management System Integrated with CI/CD Sep 2019 – Dec 2019
[Terraform, AWS Services, Ubuntu, NodeJS, REST API, Express, Google Cloud Platform(GCP), Circle CI, PostgreSQL]
• Developed a REST application with JSON endpoints to run on VPC for users to create, search and view recipe using database and images stored in RDS and S3
• Implemented Circle CI, Code Deploy, AMI, EC2, Load Balancers, Auto-scaling groups, Cloud Watch, Lambda functions, SNS, SES to Manage deploy test the application on a live domain purchased from Namecheap
• A commit on VCS(Github) will deploy the latest tested code on AWS cloud in real time, resulting in complete automated pipeline

Neural Networks: Digit Recognition (Excel data), Face Recognition (Images) May 2018 – Aug 2018
[Java 8, Sigmoidal Function, Back Propagation Algorithm]
• Used facial images and dataset of digits converted to binary form to train neurons
• Predicted correctness of digits and faces with an accuracy of 89% and 82% respectively
• Charted time series graphs to show confusion matrix of errors, weight change using Back Propagation - traversed 11000 digits, 45 facial images

IOT for Environmental Management of a Smart City Jan 2018 – Apr 2018
[Java FX, Core Java, Java Swing]

- Created IOT based Environmental Management System using ecosystem model in object-oriented design
- Implemented functionality that enabled sensors to retrieve data on a continuous basis and once the sensor reading reaches a certain threshold, a request would be sent to the concerned authority and an alert message would also be sent to the citizens. Included a call to Google Maps API.

Data Integration and Business Analysis for Retail Data Warehouse Sep 2018 – Dec 2018
[Talend, SSIS, Alteryx, SSMS, MySQL, Postgres, Oracle, Tableau, PowerBI]
• Co-designed a centralized data warehouse, for a retail organization dataset containing 48 million rows
• Designed a data pipeline from diverse data sources using **Talend** and **SSIS** to achieve the same.
• Implemented Slowly Changing Dimensions, rejection codes and performance tuning on data pipelines
• Built interactive dashboards to convey stories of retail sales and customer segmentation using Tableau and PowerBI.