
EDUCATION

Illinois institute of technology – M.S, Information Technology and Management (GPA: 3.8) December - 2017

▸ Object-Oriented Application Development | Data Analytics | Advance Database Management | Online Social Network Analysis

Anna University, Chennai, India -Bachelor of Technology, Information Technology (GPA: 3.8) May - 2015

▸ Data Structures and Algorithms | web Technology | Java Programing |Software Programming Management

TECHNICAL SKILLS

Programming Languages: JAVA, Python, C++, C# | **Big Data :** Hadoop, MapReduce, SQOOP, Hive, Pig, Elastic Search, SAS, Tableau, SSIS | **Database Technologies :** MS-SQL, Oracle, MySQL, Mongo Db | **Web :** HTML5, JavaScript, CSS3, PHP, | **Version control:** SVN, Git | **Protocols :** REST, SOAP | **AWS Services:** EC2, Lambda, Dynamo Db, S3 | Shell Scripting | Machine Learning Algorithms

EXPERIENCE

Federal Home Loan Bank of Chicago (Chicago, IL)

May 2017 - August 2017

IT Application Developer Internship

- Designed and Implemented Automation of AWS instances shutdown/restart by lambda function (Node.js) with a UI designed in C# using MVC framework that list all instances to customize work timings which was estimated to save 250K per month.
- Designed a script to write/read server tags, used as storage fields with instance working timings, instead of a database
- Designed a SSIS package in .net which gets the Security CUSIPS from TPODS and send them to IHS, Bloomberg and IDC from which the lowest price is feed into the (STOC) Security collateral system to evaluate customers pledged collateral.

Metarvrse Technologies (Chennai, India)

March 2015 - December 2015

Program Analyst Trainee Intern

- Worked closely with a team of back end developers developing front-end tools in Java for interfacing the backend AR/VR content with the front-end streamer developing a module in 'AR-VR REALITY' with scheduler functionalities which optimized the overall efficiency by 25% of the application.
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ACADEMIC PROJECTS

github.com/mpradeep1994

ANALYSIS OF WEB LOG USING HADOOP AND ITS TOOLS

January – 2017

- Implemented an analysis on Historical web log using Hadoop by writing a MapReduce program. The data is moved into MySQL database and into HDFS using SQOOP to perform operations like analyzing most visited URL based on different criteria like IP address and context of the page using MapReduce, HIVE and PIG. Time comparison is made based on the performance of each tool.

SENTIMENT AND CLUSTER ANALYSIS THROUGH TWITTER API

November – 2016

- Developed an application in python where given the hashtags that are trending in twitter, it identifies the users who has used those hashtags and builds a graph between them. Using Girvan Newman cluster analysis algorithm, clusters among them are identified.
- Tweets are classified using Machine learning models - Support Vector Machine, naïve based and logistic regression for predicting sentiment. Computed average testing accuracy for each model using Cross validation and accuracy comparison analysis is reported.

BANKING CONSOLE

January – 2016

- Created a banking application completely using Java and Java-FX for visualization.
- MVC architecture is followed for modelling and with CRUD functionalities based on the user roles and its specifications.
- Using the Historical Data, Business oriented analytics has been performed for identifying ideal customer for providing loan

BIO-METRIC BASED AUTHENTICATION IN ATM

January - 2015

- Implemented a highly-secured ATM application using Iris image of individual user to authenticate transactions securely.
- Digital image processing algorithms like canny edge detection and Hough's circle detection algorithm for parsing the iris image for authentication with the use of Public Key Infrastructure (PKI), MD5 hashing for client and server side validations
- Funded by IEDC - Indian Entrepreneurship Development Cell and awarded as the best project of the year 2015.

ISSUE TRACKING SYSTEM - (CRM)

July – 2014

- Created a web application for customer relationship management (CRM) with scheduling algorithm and efficient prioritizing strategies for synchronization to manage customer complaints optimizing assignment to employees to resolve issues faster.
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CERTIFICATIONS

- **EMC² Certified academic associate, cloud infrastructure and service.**
 - **IBM Certified DB2 academic associate.**
 - **Windows Server 2008 - Microsoft Certified Solution Associate**
 - **ITIL v3 Foundation** certificate on IT Service Management.
 - **Oracle Certified Java SE6 Developer**
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PUBLICATION - Presented and published paper titled "Identifying and Optimizing Data Duplication by Efficient Memory allocation in Repository by Single Instance Storage" in IRAJ. **ISBN : 978-93-85465-30-7**