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SARVESH SANTOSH PARAB

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EDUCATION

University of Southern California – Master of Science in Computer Science

August 2018 – Present

- GPA : 3.83/4.0
- Courses: Analysis of Algorithms, Artificial Intelligence, Web Technologies, Information Integration

Visvesvaraya National Institute of Technology – Bachelor of Technology in Computer Science & Engineering **July 2012 – April 2016**

- GPA : 8.76/10 [University Rank: 3]
- Electives: Neuro-Fuzzy Techniques, Data Mining and Warehousing, Network Security, Information Retrieval, Artificial Intelligence

SKILLS AND TECHNOLOGIES

- Programming: Java 8, JavaScript, Python, C, C++, R, Perl, Scala, Sed, Bash
- Databases: Oracle SQL 11g, MySQL 5.7, Sybase, DB2, Neo4j 2.3.5, MongoDB, H2
- Frameworks: Spring 4, Hazel-Cast, IBM MQ, Zookeeper, JMX, CXF-Utils, Mockito, jMock, ECOMs, SPEL, ANTLR, SOLR, Elasticsearch
- Web: HTML5, CSS, PHP, JS, jQuery, webPy, D3, Angular 8, JSP, AWS, Google Cloud
- Tools: Git, Perforce, IntelliJ, Dreamweaver, Autosys, Photoshop, Microsoft Office, Google Web Suite, MATLAB, JIRA

WORK EXPERIENCE

Software Engineer Intern | Salesforce, San Francisco

May 2019 – August 2019

Content Management System – Search

- Built custom renditions for CMS content with a modular structure for indexing and integrated it with the existing SOLR framework, thus giving the CMS users the ability search through their authored and published content spaces.
- Developed and deployed an Elastic Search based indexing solution to support faceted search, partial indexing with boosting and dynamic fields and response highlighting.

Senior Software Associate | Morgan Stanley, India

August 2016 – June 2018

Data Analytics – Credit / Debit Exposure Breaches Prediction Engine:

- Developed a highly scalable, real-time system in Java capable of detecting breaches based on multiple input-feeds for millions of transactions and published them on an AngularJS dashboard, alerting the clients and regulatory teams.
- Created OLAP data cubes for historical analytics to predict breaches & proactively reduce regulatory impact on the firm and clients

Onboarding Variation Margin Engine on Cloud-platform:

- Built to scale with the least human intervention by creating infrastructural resources on demand. Re-architected solution increased engine throughput for batch of 100k transactions from ~25 minutes to ~1.2 minutes.
- Prototyped a decision tree-based scaling automation on factors like input queue depth, instance health, resource utilizations & market conditions which would spawn or kill application instances and prevent under-utilization or throttling of resources

Micro-Services driven Notional Calculation Engine:

- Worked on developing distributed system to calculate principal values in real-time and update client portfolios
- Devised a new Context Free grammar-based language using ANTLR to parse complex financial formulae on client systems, thus reducing compute load on the firm side and increasing throughput to 1.5 million client requests per minute

Software Development Intern | Vaultize, India

May 2015 – July 2015

- Developed a Python API to connect with and interpret data from any CMIS compliant Enterprise Document Management System and delegate to proprietary Vaultize APIs there by eliminating need for client data migration/replication onto Vaultize Systems

PROJECTS

[Question Annotator & Tag Recommendation System](#)

July 2015 – April 2016

- Led a team of four and developed an adaptive recommendation system using supervised machine learning techniques for questions in community forums based on its domain and user behavior to establish the dominance of multiple semantic closeness algorithms
- Established ranking with cumulative corpus reduction based on high correlation metrics and semantic analysis

[10x10 Bit Emoticon/Symbol Detection](#)

November 2014

- Designed a machine learning based layered perceptron neural network to identify alphanumeric patterns in 10x10 binary images

INITIATIVES AND RESPONSIBILITIES

Morgan Stanley | Campus Recruitment – Campus Captain and Placement Coordinator

August 2017

Visvesvaraya National Institute of Technology | ACM Nagpur Chapter – Core Committee & Webmaster

June 2014 – May 2016

ACHIEVEMENTS

- Completed Morgan Stanley TAP program – Wall Street's awarded best training program