SREEHARI HEGDEN
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SUMMARY OF SKILLS AND CORE COMPETENCIES

- Passionate programmer with 6 years of professional experience
- Strong knowledge in C and Java
- Proficient in Data Mining and related technologies
- Proficient in Cloud Computing: Amazon Web Services, Google App Engine
- Excellent communication skills and active team player

TECHNICAL SKILLS

Languages:	C, C++, Java, Python, PHP, MATLAB, SQL, 8085 Assembly Language
Database:	Oracle, MySQL, NoSQL databases (DynamoDB, MongoDB)
Web Technologies:	HTML, XML, JavaScript, AJAX, jQuery
Operating Systems:	Windows, UNIX, Linux
Integration Architecture:	webMethods, SOA, Web Services
Testing Tools:	MATLAB Unit Testing Framework, HP Quality Center (HP QC), SoapUI
Certifications:	Accenture Technology Academy Certification in Java

EDUCATION

Master of Science in Computer Science May 2016
Thesis: A Data Driven, Hospital Quality of Care Portal for the Patient Community
University of Texas at Arlington, Arlington, TX, **GPA: 3.87**

Bachelor of Technology in Computer Science & Engineering May 2011
Mahatma Gandhi University, Kerala, India

PROFESSIONAL EXPERIENCE

Quality Engineer
The MathWorks, Natick, MA May 2016-Present

- Identify bugs and verify bug fixes for the core MATLAB Toolbox functions
- Develop Automated Test Suites based on MATLAB Unit Testing Framework for MATLAB Datastores and Tall Arrays
- Perform hands-on testing of Big Data and MATLAB Toolbox functions across Mac, Linux and Windows platforms
- Assist improving performance of Big Data functions by developing Performance Test Suites

Quality Engineering Intern
The MathWorks, Natick, MA Aug. 2015-Jan. 2016

- Identified bugs in data import-export functions in MATLAB and helped minimize production bugs
- Assisted improving performance of data import functions by developing Performance Test Suites
- Developed Automated Test Suites based on MATLAB Unit Testing Framework
- Performed qualification of Big Data and MATLAB Toolbox data import-export functions across Mac, Linux and Windows platforms

Software Engineering Analyst
Accenture Services Private Limited, Bangalore, India June 2011-July 2014

- Developed A2A, B2B, SOA integrations and RESTful web services in webMethods (wM)
- Performed Integration Testing using HP Quality Center (HP QC) for critical interfaces
- Source Control Management (SCM) and version control using Microsoft Visual SourceSafe (VSS), SVN
- Trained team members on webMethods and SCM tasks

ACADEMIC PROJECTS

A Data Driven, Hospital Quality of Care Portal for the Patient Community Feb. 2015-May 2016

- As part of Master's Thesis, developed MediQoC (Medicare Quality of Care), a data driven web portal
- The portal grants access to data-driven information about hospitals, and quality of care indicators for Medicare patients, their caregivers and the healthcare insurance policy designers
- Statistical module of the portal built using Python, Pandas, NumPy and SciPy models the correlation between length of stay and discharge status attributes in each hospital for the given disease
- Ranking results are visualized as bar charts via MediQoC-viz, the visualization module of the portal using Python and Bokeh
- Using Google Geocoding API provided hospital location, distance and driving duration in map

Web Scraping and Exploratory Analysis of Presidential Election Contribution Dataset Feb. 2015

- Data Collection: scrapped Wikipedia, Walmart, Facebook websites and represented the data in Pandas DataFrame
- Exploratory Analysis: using Pandas, performed a guided exploration over FEC 2012 data
- Visualization: using matplotlib, created basic 1-D and 2-D plots to identify patterns in data
- Technologies used: Python, pandas, matplotlib, BeautifulSoup, IPython Notebook

Data Analytics and Machine Learning on the Cloud Nov. 2014-Dec. 2014

- Technologies used: Python, R, Weka, D3.js, Amazon DynamoDB, Amazon S3, Amazon Elastic Compute Cloud (EC2)
- Titanic dataset was uploaded to AWS DynamoDB NoSQL database and AWS S3 using Boto
- k-Means clustering performed using Weka and R on the Titanic dataset by accessing from AWS EC2

'Weather Info': a Cloud based Scalable Web Application Nov. 2014-Dec. 2014

- Dynamic web application deployed on Amazon Cloud
- Technologies used: AWS Elastic Beanstalk, Java, HTML
- HTML Geolocation, OpenWeatherMap and Twilio APIs were used to get the weather at user's current location and send it as message or call to the user's mobile phone
- Scalability was achieved by configuring AWS Elastic Beanstalk