APOORVA SAHAY

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EDUCATION

The University of Texas at Dallas (UTD), Richardson, Texas.   May 2017
Master of Science, Computer Science   GPA: 3.6/4.0
Shanmugha Art, Science, Technology and Research Academy (SASTRA), Thanjavur, Tamil Nadu, India   August 2011
Bachelor of Technology, Computer Science   GPA: 8.46/10.0

SKILLS

Courses: Machine Learning, Artificial Intelligence, Design and Analysis of Algorithm, Randomized and Approximation Algorithms.
Programming Languages: Python, Javascript, C++, HTML, CSS.
Frameworks: jQuery, NodeJs, AngularJs, ReST Webservices, webPy.
Area of Interest: Distributed system, Parallel programming, Algorithms, Human Computer Interaction.
Keywords: Strategy Patterns, Façade Pattern, Decorator Pattern, Factory Pattern.

Experience

The MathWorks, Inc.   **May 2016 – August 2016**
Application Support Engineer – Intern

- Solved many customer cases related to Simulink code generation and MATLAB.
- Developed an Icon searchable repository using MEAN stack.

Goldman Sachs Services Limited, Bangalore, India
Analyst Software Developer   **March 2015 – July 2015**

- Maintained distributed databases located at different location and is used for real time trading.
- Debugged backend code for a trading platform.
- Enforced new rules used for generating reports.

Altair Engineering India Private Limited, Bangalore, India
Software Engineer   **June 2011 – February 2015**

- Instituted new data modeling feature for UDM, a C++ library for data modelling.
- Designed and developed a test framework in Java to expedite QA test automation task. Provided pluggable validator and custom assertion feature. Used design patterns like strategy and factory pattern.
- Introduced lazy branching for Simulation Manager, a content management system for CAE domain.
- Implemented a mathematical expression evaluator for criteria in Simulation Manager.
- Individually built backend for Job Manager, a tool to submit analysis and optimization jobs on local or remote solvers.
- Administered specific data modeling requirements for external clients like NISSAN and Volvo.

Consultant Student Intern   **January 2011 – May 2011**

- Exposed public API of UDM API to Java and Tcl using SWIG (Simple Wrapper Interface Generator).
- Added new test case classes to the test suite for UDM public APIs using CPPUnit and TestNG.

Academic Projects

WeatherApp (AngularJS, Bootstrap, Rest API, NodeJS)   **May 2016 – May 2016**
Created a weather App that stores weather information of selected cities. Users are able to add and remove cities on fly. On adding a new city application. On adding a new city hits a webserver using ReSTful API to extract current weather data
Comparison of several cyberbullying detection models on Twitter (Python, Twitter APIs)   **March 2016 – April 2016**
Implemented supervised learning algorithms like Naïve Bayes, Logistic regression and Support Vector Machine on data collected using python library tweepy and MyTwitterScrapper
Oil Inventory Management (Javascript, Spring, Servlets, MySQL)   **October 2015 – November 2015**
Completed an inventory management system for an oil firm. Problem statement required designing of a database for the system along with normalization. Almost 80% of the business logic was implemented in SQL. Javascript was used for validation and front end.

Extra Curriculum Activities

- Assisted in setting up of the Electric Light Show and Dance, organized by Student Union & Activities Advisory Board (SUAAB) at UTD.
- Volunteered in pre-placement workshop organized by placement cell of SASTRA. Helped a group consisting of 40 students in improving their aptitude required for placement exams conducted by various companies.