Chandni Shankar

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OBJECTIVE

Seeking to obtain a challenging Internship/Co-op position in the field of Computer Science that provides an opportunity to utilize my strong problem solving, analytical and communication skills to contribute to the productivity of the company.

EDUCATION

The University of Texas at Dallas   Expected May 2017
Master of Science in Computer Science   GPA 3.77
Major Subjects: Artificial Intelligence, Machine Learning, Implementation of Advanced Algorithms, Semantic Web, Computer Vision

TECHNICAL PROJECTS

Pacman Path *(Python)*
- Implemented traditional search algorithms(BFS, A*) to deduce the optimum path through the maze for pacman to eat food
- Designed search algorithms (minmax, expctimax) to optimize pacman's action in multi-agent environments
- Developed better heuristics and evaluation functions to assist the pacman in speedy capture

Image Classifier (Python)
- Currently working on a project to identify 256 images using Caltech image datasets.
- Implementing supervised and unsupervised algorithms to compare performance and perform feature engineering

Decision Tree (Python)
- Implemented the ID3 decision tree algorithm for a given dataset using the information gain and variance impurity heuristics
- Employed post pruning algorithm which improved the performance of the decision tree from 75% to 78%

Euler Path (Java)
- Executed an algorithm to find an Euler tour that passes through all the edges of a connected graph exactly once
- Implemented algorithm efficiently to find the Euler path in a time of $O(E)$ where E is the number of edges in a graph

Aviation Accident Report *(Java, SPARQL)*
- Merged 5 datasets using Fuseki and SPARQL to create a complete aviation accident report of commercial aircrafts
- Used Google visualization tools on data to infer results such as the aircraft damages are the major effects due to accidents

Oil Trade Management System *(Django)*
- Designed a web application using Django, AJAX and JQUERY to allow clients to trade oil
- Enabled traders to approve/reject each client's transaction and view client's history by using a text matching search
- Generated daily, weekly and monthly reports of sales of amount of oil and payment details for the manager

WORK EXPERIENCE

Software Engineer Tata Consultancy Services Limited, Chennai, India   2011- 2014
- Developed Interactive Voice Response (IVR) applications for British Telecom using Avaya Periphonics, SOAP, C++ in Unix
- Developed speech recognition applications by generating recognizable grammar in java which increased IVR calls by 7-10%
- Created tool using Visual Basic to automate development and validation of an application to reduce time and errors by 15%
- Automated IVR testing process using Periphonics, ant script and J Unit with 2 other members to reduce testing time & effort
- Supported platform maintenance engineers to resolve production issues during crisis

TECHNICAL SKILLS

Tools: Avaya Periphonics, Fuseki, Protégé, Gruff   **Databases**: SQL, SPARQL
Web: HTML, CSS, XML, RDF, JavaScript   **Operating Systems:** UNIX
Programming Languages: Java, C++, Visual Basic, Shell Script, Python

CERTIFICATIONS

Oracle Certified Professional, Java SE 6 Programmer

VOLUNTEERING

Bhumi, India (www.bhumi.org.in)**,** One of India's largest youth volunteering Organization   2008 – 2014
- Project manager of Nakshatra Reach Out, an arts program involving 20 volunteers and over 75 children

AWARDS

Most Valuable Player, *Tata Consultancy Services Ltd* **-** Outstanding application management
Change maker, *Bhumi* **-** Valuable contribution to the organization