Aboorva Devarajan

MSc Software Engineering Vth Year
Department of Computing
Coimbatore Institute of Technology

+91 9944352916
aburvadevarajan@gmail.com
http://aboorvadevarajan.github.io

Objective

To be a part of a challenging organization and contribute to the growth and profit of the same, and exploit my extreme interest in the field of Computer Science thereby enhancing my professional career profile.

Academic Details

Year	Degree	Institute/School	Percentage/CGPA
2011-*present*	MSc Software Engineering (Integrated)	Coimbatore Institute of Technology, Coimbatore	CGPA = 8.72/10 *Overall Rank 4*
2010-2011	Class XII	Holy Angels Convent, Salem	89%
2008-2009	Class X	Sri Sarada Matriculation School, Salem	86%

Relevant Work Experience

Intel India Private Ltd, Bangalore   *May 2014 - November 2014*
Undergraduate Technical Intern

- Involved in the Development of "Eco-driving" – An **Internet of Things** Project.
- Participated and gained experience in Agile - Scrum Development.
- Involved in development of Backend Service logic for Geofence / Social Network APIs.
- Involved in the optimization of message streaming using Apache Kafka and Storm.

Technologies used: *Java, MongoDB, GIS, Neo4j, Maven, Hibernate, Spring MVC, Restful Web Services, Apache Storm, Apache Kafka, SVN, RTC-Jazz*

Projects

Efficient Resource Allocation for Virtual Machine using Particle Swarm Optimization in Cloud Computing Environment   *December 2014 - March 2015*

This project proposes a technique for efficient resource allocation for dynamic virtual machine requests based on the load balancing factor of each physical machine in the cloud environment. The concept of "**skewness**" is introduced to measure the **unevenness of the resource utilization** in each physical machine.

Technologies used: *MATLAB/Octave, Git*

Optimal Game of Checkers using Alpha Beta Pruning algorithm and MPI (Competitive AI)   *September 2013 - January 2014*

Optimal move that can be made by the machine is predicted by implementing alpha-beta pruning search in the n-ary game tree, the complex game tree processing is improved by parallelizing the algorithm using Message Passing Interface (MPI).

Technologies used: *C++, Open MPI, GLib*

Snoof - Network Monitoring Tool   *December 2012*

This project presents a system for monitoring the packets transferred when it is connected to a network. The packets are captured and visualized with JPcap(Java Packet Capture) library which is integrated in JVM. A simple client keylogger and voice alerting module is developed using PyHook and PyAudio.

Technologies used: *Java, JPCap, Python*

Graph Connect Multiplayer Game using SocketIO   *March 2015*

A graph based multiplayer game that can be played over a local network is developed using Socket IO, python web services.

Technologies used: *Python, RestFul WebService, Flask, SocketIO*

Machine Learning Web Services using Naive Bayes / OpenCV   *January 2015*

Implemented Basic machine learning services to study the machine learning libraries such as Sentiment Analysis, Feature Detection, Face Detection, Face recognition, Handwritten Digit Recognition.

Gained knowledge about the features in Open-CV and machine learning tools/ algorithms such as naive Bayes classifier and Support Vector Machine.

Technologies used: *OpenCV, Python/Flask, Naive Bayes*

Technical Skills

Programming Languages	C, C++, Java, MATLAB/Octave
Databases and Servers	MySQL, Oracle, MongoDB, Neo4j
Scripting Languages	Python, Bash
Operating systems	GNU/Linux, Windows
IDEs/ Editors	Netbeans, Eclipse, MS Visual Studio, Dreamweaver, Vim
Web Development and Design	HTML, CSS, ASP.NET, JSP
UML / Versioning / Planning Tools	Rational Rose, YeD, SVN, Git, RTC Jazz

Academic Awards and Certifications

- Secured **1st rank** overall in first semester.
- **Business English Certification Preliminary** by Cambridge University.
- Awarded "**Best Intern**" of the Year 2015 in the **Department of Computing, Coimbatore Institute of Technology**.

Co-Curricular Activities

- Attended a workshop on **Message passing Interface** and **Virtualization/Cloud Computing** organized by IBM.
- Currently undertaking Courses Online
    - **Introduction to Machine Learning** by Prof. Sebastian Thrun (Udacity)
    - **Computational Neuroscience** by Prof.Rajesh P. N. Rao, University of Washington (Coursera)

Extra Curricular Activities

- Won **1st prize** in Programming Quiz conducted by Computer Technology department of CIT.

- Served as a Resource Person in "Yound Minds Crea Soft Camp-2015" workshop on web technology at **Coimbatore Institute of Technology**.
- An active participant in various coding contests conducted by **CodeChef / HackerRank.**
- Ranked among top 50 in women hackathon conducted by codechef (MARCH15).
- Ranked 1st on Pythonist a contest for Python enthusiasts conducted by HackerRank.

Declaration

I hereby declare that the details provided above are true to the best of my knowledge.