Sri Ananda Seelan

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Education

Amrita School of Engineering, Amrita Vishwa Vidyapeetham — Coimbatore, India
Bachelor of Technology, Computer Science and Engineering (CGPA: 8.29) — *2010 - 2014*

Sri Sarada Balamandir Boys' Matric Hr. Sec. School — Salem, India
TamilNadu Higher Seconday School Examination (Score: 95%) — *2010*

Programming Skills

Languages: C, C++, Python-2.X, Java, JavaScript, HTML, Dart(under study), Scheme(under study)

Databases: MySQL

GUI Toolkits: wxWidgets

Web Development Frameworks: Python Flask, jQuery, Twitter Bootstrap, Enyo JS

Operating Systems: Linux (mainly Ubuntu, OpenSuse but also familiar with other distributions)

Version Control Systems: Mercurial

Interests

- General purpose programming
- Web development
- RESTful API
- Information Systems

Work Experience

Zoho Corporation — Chennai, India
Member Technician Staff, ManageEngine ServiceDesk Plus OnDemand — *April 2014 - Present*

- Part of a team working on developing a RESTful web framework that is typically used everyday by module/feature developers for quickly implementing REST APIs.
- *The framework is being written with core Java. Responsibilities include active development and maintenance of core parts of this framework.*

Zoho Corporation — Chennai, India
Project Intern, ManageEngine ServiceDesk Plus OnDemand — *Feb 2014 - March 2014*

- Developed a Computer Telephony Integration addon for ServiceDesk Plus OnDemand - a cloud based IT Help Desk software.
- *Wrote API bindings and a standalone client application for Avaya PBX.*

Human Factors International — Pondicherry, India
Intern — *Dec 2012*

- Interned with a contractor for HFI working on a cross-platform desktop application to monitor their servers. This application serves as a control panel that is being used by the employees to control and monitor their remote servers.
- *Primarily worked with adding/tweaking few GUI components of this application written with wxWidgets.*

Amrita Multi-dimensional Data Analytics Research Lab — Coimbatore, India
Undergraduate Student Researcher — *May 2012 - Dec 2013*

- Was part of a team of research interns who were working on several Information Retrieval projects in Amrita MultiDimensional Data Analytics Lab, Department of CSE.

Projects

A statistical approach for modeling Inter-Document relatedness

- This work, done at the Amrita Multi dimensional Data Analytics Lab was aimed at devising a statistical model that automatically identifies and quantifies different types of relatedness between scientific/technical documents. This system would find important applications in educational Digital libraries to help a user by directing the order of material he/she searches to learn.
- Consequently, a research article was written by us with the above title and the manuscript has been communicated with *"Journal of Intelligent Information Systems"* - a reputed research journal.

Incremental and Hierarchial index for faster TF-IDF calculation

- This project was aimed at reducing the calculation time of TF-IDF, an important and fundamntal metric in Searching and Ranking.
- Designed and implemented an incremental and hierarchial index with an in-memory key value store and achieved faster calculation of this metric.
- *This utility was written in Python.*

Feedback aggregation tools for a Video Recommender system

- Developed a couple of simple video browsing applications along with a recommender system based on the results of our previous project "A statistical approach for modeling Inter-document relatedness". These web applications were used to log user feedback(both implicit as well as explicit) and check the user intent against our results.
- *Python was the primary language on which the servers were written with Flask as the web framework. SQLite was used as the database server and jQuery for frontend.*

Docu

- Docu is a desktop application that features a text editor written over Google Closure editor, to support text editing in a number of Indian languages including Hindi, Bengali, etc.
- *This being primarily a JavaScript application, was bundled as a desktop application using node-webkit aka nw.js for webkit bindings.*

Collision Course

- A 2D ball dodging game written during a 24 hour code-a-thon which also won the third place in the same event.
- *The game ran on HTML canvas using the box2D JavaScript engine.*

Monopoly

- A desktop version of the classic Monopoly board game.
- *Was written in C++ with WIN32 graphics library support.*

Achievements

- Qualified for the ACM-ICPC 2014, Amritapuri regionals
- Won the third place in a web-designing event held during a National level Student Convention conducted by Computer Society of India
- Secured the third position in a code-a-thon event conducted by Amrita School of Engineering-Bangalore for developing a game application in 24 hours
- Won the second place in "Hexathalon", a technical event conducted during a National level Tech. Fest conducted by Amrita University

(Last updated on 17/5/2016)