Vishnunarayanan Ramasubramanian

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OBJECTIVE

Seeking a Software Development Engineer Internship position during the Summer of 2018

INTERESTS

Machine learning, Operating Systems, Software Engineering, Natural Language Processing, Database Systems

EDUCATION

Master of Computer Science
Arizona State University, Tempe   *May 2019 (Expected)*

Bachelor of Technology in Computer Science and Engineering
Shanmugha Arts, Science, Technology and Research Academy(SASTRA) University   *May 2017*
CGPA: **8.10/10**

ACADEMIC WORK EXPERIENCE

Graduate Teaching Assistant for CIS 508: Data Mining; Advisor: Prof Asim Roy
Department of Information Systems, Arizona State University   *September 2017 - Present*
- Assisted Prof Asim Roy in grading papers, setting assignments and holding office hours in a teaching assistant capacity for a class of around 60 students.
- Contributing to his current research work by designing and developing an Application for running Machine Learning algorithms on the Web using Python and OpenCL.

PROJECTS

Multimedia Movie Database System   *Ongoing*
- Designed and developed a recommender system for movies using text mining, semantic analysis and manipulating vector spaces using user tags in the IMDB and MovieLens dataset of movie reviews.
Technologies used: Python, PostgreSQL

A Secure Skeletal Banking System   *Ongoing*
- Designed and developed a skeletal banking system end-to-end with special emphasis on security and detection of vulnerabilities. *Technologies used: Java Spring MVC, Hibernate*

An Applicant Tracking System (ATS) using AHP and text matching   *April 2017*
- Showed bias for action by leading a team of three to deliver an ATS using AHP and keyword matching to expedite the hiring process at SASTRA University during Spring 2017. *Languages: Java, HTML, CSS.*

Building Brand Loyalty:A Study of Movie Theatres in the Indian Milieu   *April 2017*
- Improved the brand loyalty and sales of Indian theatres by 20% in rural and semi-rural conditions with a team of three using SERVPERF framework and Pearson's Correlation. *Technology used: IBM SPSS Statistics.*

Web Application for predicting Total Electron Content   *December 2016*
- Collaborated with researchers at the Council of Scientific and Industrial Research (CSIR), India to design and develop a system for predicting Total Electron Content, storage and retrieval of ionospheric data through a Graphical User Interface. *Languages: HTML/CSS, PHP, JavaScript, PHP. Database: MySQL.*

A Feed-forward Neural Network for Multi-Class Classification   *April 2016*
- Optimized the classification of hand-written digital images with an average accuracy of 86% by designing a feedforward neural network and training it on data obtained from the MNIST handwritten digit dataset. *Technologies used: MATLAB/Octave.*

COMPUTER SKILLS

Languages	: C, C++, Java, R, Python
Web Development	: HTML, PHP, CSS, Javascript, JQuery, AJAX
Applications	: LaTeX, BlueJ, Octave 4.0.0, R, Rational Application Developer, MATLAB
Others	: Spring Framework, Natural Language Toolkit (NLTK)

GRADUATE COURSES	**CSE515** - Multimedia and Web Databases **CSE539** - Applied Crytography **CSE545** - Software Security
HONORS AND AWARDS	Secured *First Class with Distinction* in Bachelors Degree with consistently being placed in the *Top 10%* in a class of 80 students. Won many intercollegiate and intra-collegiate programming contests. (CodeIT, Protocol). Won Amazon Web Services benefits and vouchers in a programming contest conducted by HackerRank, India. Secured *First class with Distinction* in an Introduction to Java course in edX by Hong Kong University of Science and Technology. Secured *First class with Distinction* in an Introduction to Psychology course in Coursera by University of Toronto.
LEADERSHIP ROLES	*Campus Ambassador (2015-2016)* of Tata Consultancy Services(TCS), at SASTRA (co-ordinated the placement process of over 1000 students, from registration to interview preparation and promoting Campus Commune by TCS). *Organisation Committee Member*, Association of Computer Engineers(ACE), SASTRA University (duties include conducting and organizing workshops, research groups and assisting faculty in a teaching assistant role). *Executive Club Member* of The Studio at SASTRA, a semi-professional theatre group (acted in numerous plays and organized theater and cultural workshops by prominent theater groups in India). *Placement Student Volunteer*, Training and Placement department, SASTRA University (assisted hiring managers of over 20 companies and the Placements department at SASTRA in the placement process of over 2500 students) .
EXTRA AND CO-CURRICULAR ACTIVITIES	Represented the college theatre team in Intercollegiate cultural fests and attended many theatre workshops conducted by Crea-Sakthi. Purple belt in Bouffukkai Isshnryu Karate. Has often assisted faculty in a teaching assistant capacity, such as conducting workshops and seminars regularly.