Rahul Ethiraj

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EDUCATION

University of Southern California - *Los Angeles, CA*
Masters in Computer Science | Expected May 2019
GPA: 3.56/4.0

Amrita Vishwa Vidyapeetham University - *Coimbatore, India*
Bachelors in Computer Science & Engineering | May 2015
GPA: 8.91/10.0 (*Distinction*)

SKILLS

- **Networking** : CCNP, CCNA (R&S); Data Analysis, Data Center, TCP/IP, QoS, Load Balancing, Cisco IP routing & switching protocols, Cisco System Products; VMware ESXi, vCenter, vSphere; FC, SAN, FCoE, iSCSI
- **Hardware** : Cisco UCS (B and C series); Nexus 7k, 5k, 3k, 2k series, 1000v; MDS 9000 series; Brocade SAN switches
- **Technical** : Java, C, C++, Python, PHP, SQL, MySQL, Unix, JavaScript, XML, JSON, AJAX, jQuery, CSS3, HTML5, Bootstrap, AngularJS, React Native, UCS Central, Hyper-V, Red Hat, SUSE
- **Tools** : Android Studio, NetBeans, GIT, SVN, AWS-Elastic Beanstalk EC2/S3, Google Cloud, Lambda, Photoshop, Visio, SciPy, Weka, Pandas, NumPy, MATLAB, Scikit-Learn, TensorFlow, GNS3, Wireshark, ASP.NET
- **Soft skills** : Global delivery, customer interaction, mentoring, network consulting, team building

WORK EXPERIENCE

COCOMO Software Engineering at USC – *Intern*   May - July 2018
- Supported the project members in research involving a software effort cost estimation model originally developed by Dr. Barry Boehm – in a highly transparent Agile environment.
- Managed a team of three and re-implemented COCOMO in Java so that it is accessible/executable on any OS platform.

Cisco Systems, Bangalore - *Engineer, Server Virtualization*   July 2015 - Dec 2017
- Delivered solutions and resolved problems for Cisco clients through computer programming and systems engineering.
- Role involved troubleshooting large scale data center networks (Linux, storage, NTP, OS/BIOS/firmware, VM migrations) and scripting to automate diagnosis of problems in network.
- Providing consultation support, filing bugs and testing new software release thus improving serviceability of the product by continuously working with engineering teams on fixing bugs.
- Collaboration with different vendors like *Dell, VMware, Microsoft, Citrix, Cisco* to fix complex multi-vendor environmental issues.
- Decoding complex logs and core dumps to analyze and verify root cause of the issues.

Cisco Systems, Bangalore - *Intern*   Jan - June 2015
- Completed practical training and assisted in ongoing projects (automation and RMA reduction) through scripting.
- *CYK, LR parsers,* and *shift-reduce* in Python, to parse the tech-support bundle from Unified Computing System (UCS) and extract required information for Big Data Broker (BDB).

ONGC, Chennai– *Intern - Microsoft .NET framework-ASP.NET & MS SQL Server*   May - July 2013
- Constructed a rich web-based Intranet Mail for sending and receiving ONGC (Oil and Natural Gas Corporation) Ltd. ISO formatted forms thus resulting in prevention of traversing ISO forms outside the organization.

PROJECTS

Gender Transformation using Adversarial Networks-GANs – *Python, PyTorch, TensorFlow* | GitHub   May-July 2018
- Given an image of a male, generator network is expected to produce a realistic version of the same person as a female and vice versa, examining how famous *Marvel men stars* would look like if they were born with two X chromosomes.

Generative Models for Text - *Trained an LSTM to mimic Russell's style and thoughts* | GitHub   May-July 2018
- Built a generative model to mimic the writing style of prominent British Mathematician, Philosopher, prolific writer, and political activist, Bertrand Russell.

Travel and Entertainment Search App - *Node.js, Java, JS, jQuery, Bootstrap, Angular, AWS* | Website   Jan- May 2018
- Developed a Web and an Android application, which allows users to search for a place from a live JSON API, look at information about it, save some as favourites, post on Twitter about the place, and hosted it on Amazon Cloud.

(Deep) CNNs for Image Colorization – *Keras* | GitHub   May-July 2018
- Created a CNN for image colorization that turns a grayscale image to a coloured image using CIFAR-10.

Interactive Yoga poses correction – *MATLAB* | GitHub   Oct- Dec 2018
- Partially devised an articulated human body model by using limbs and joints, and to track human motion in a video sequence and suggest corrections, if the user is in a wrong position.

EXTRA CURRICULAR

- Active participant as a volunteer in *Cisco's Corporate Social Responsibility* activities, directed fresh graduate employees and interns, Ambassador of *Foundation to Success*, a global training program and lead member in authoring the *Jive On* page for the team, an internal forum for Cisco Systems.