

# 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.