

EDUCATION

University of Southern California - Los Angeles, CA
Masters in Computer Science | Expected Dec 2019
GPA: 3.54/4.0

Amrita Vishwa Vidyapeetham University - Coimbatore, India
Bachelors in Computer Science & Engineering | May 2015
GPA: 3.56/4.0 (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** : Python, C, C++, Java, PHP, SQL, MySQL, Linux, 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

Research Assistant at USC – Sol Price School of Public Policy Jan-May 2019

- Assist with cleaning a full-text dataset of all House and Senate committee hearings from the early 2000s to present.
- Web scraping, text analysis and machine learning based on a hand-coded random sample of the dataset.

COCOMO Software Engineering at USC – Intern May-July 2018

- Supported 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 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.
- Performed troubleshooting on large scale data center networks (Linux, storage, NTP, OS/BIOS/firmware, VM migrations) and scripting to automate diagnosis of problems in network.
- Provided consultation support, filed bugs and tested new software release thus improving serviceability of the product by working with engineering teams on fixing bugs.
- Collaborated with different vendors like Dell, VMware, Microsoft, Citrix, Redhat, VCE, EMC and Netapp to fix complex multi-vendor environmental network, server and storage issues.
- Decoded complex logs and core dumps to analyze and verify root cause of issues.

Cisco Systems, Bangalore – Intern Jan-June 2015

- Completed practical training and assisted in ongoing projects (automation and RMA reduction) through scripting.
- Designed *CYK*, *LR parsers*, and *shift-reduce* in Python, to parse tech-support bundles 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

Token Bucket Emulation using POSIX multi-threading – Unix, C Jan-May 2019

- Emulated a traffic shaper which transmits packets controlled by a token bucket filter. Mutex and signal handling have been used to improve throughput and delay with statistics implemented after each run.

LA times News Search Engine – Java, PHP, Javascript, Python, jQuery, Apache Solr, Lucene, jSoup | [GitHub](#) July-Dec 2018

- Devised a search engine to search through 15000 news webpages. PageRank and TF-IDF weighting have been used to rank different search results retrieved from Solr, having features such as spell checking, auto complete and snippets.

Distributed Lookup Service (Socket Programming) – C++ | [GitHub](#) May-July 2018

- Designed a lookup service to locate data that is distributed over multiple nodes in the network. Implemented dictionary word requests from a client with help of three backend servers behind a main server over TCP & UDP connections.

Gender Transformation using Adversarial Networks - GANs – Python, PyTorch | [GitHub](#) May-July 2018

- Implemented a generator network that realistically transforms the gender of a person out of curiosity for what famous *Marvel men stars* would look like if born with two X chromosomes.

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 using a live JSON API, view its information, save it as a favourite and/or post about it on Twitter. The web application is hosted on Amazon Cloud.