Dwaraka Nath

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https://www.dwarak.in

Education

- **Birla Institute of Technology and Science** — Pilani, India
  Master of Engineering in Software Systems; CGPA:8.346 — *July 2014 – May 2016 (expected)*
- **SSN College of Engineering** — Chennai, India
  Bachelor of Engineering in ECE; CGPA:7.59 — *August 2009 – May 2013*
- **DAV Boys Senior Secondary School** — Chennai, India
  AISSE; Percentage:94.2 — *May 2009*

Experience

- **Lister Technologies** — Chennai, India
  Software Engineer — *July 2013 – July 2014*
  - Web Development - Managing the organization's entire website stack
  - Product - Worked on a eCommerce product's UI
  - A Rails project for a US based client

- **OrangeScape** — Chennai, India
  Software Engineering Intern — *May 2015 – July 2015*
  - Developed a module to crowdsource language translations from users

- **Amazon** — Bangalore, India
  Software Engineering Intern — *January 2016 – June 2016 (expected)*
  - Working on Amazon.in - Seller Experience Platform

Skills

Technologies: C/C++ with a little exposure to Ruby and Java

Web: HTML, CSS, JavaScript/jQuery

Individual Projects

SecretShare: Firefox OS Mobile application to share secrets with Friends. Uses OneTimeSecret API, IndexedDB memory store & HTML/CSS/JavaScript for frontend. Published in Firefox OS Marketplace.

ComPair: Used to match your Facebook friends/peers and finds the best pair among the given choices. Built with Rails for backend, Bootstrap for UI and Facebook Graph API for user authentication, fetching data and posting/sharing content over Facebook timelines.**Won the best creative appliation award at RedHat's OpenShift DevConf 2014, Czech Republic**

Lexico Responsive web application that uses WebSpeech API. Dictionary powered by Wordnik API

Fuse Dropbox like file collaboration framework within a LAN to share files. Used Google Plus API for user authentication, WebRTC for realtime video/audio streaming and chat. Designed the WebUI using HTML/CSS/JavaScript, Java servlets for backend and used MySQL for DB.

Flames Simple name game built with servlets

Academic Projects

Plugin-free realtime communication via WEBRTC WebRTC based realtime voice and video communication infrastructure with a web frontend

Security Analysis of Bitcoin P2P Transactions Analysis of Bitcoin P2P Transactions within the scope of user anonymity.

Faster and Secure MD5 Modification of MD5 hash algorithm using Wide Pipe and Fast Wide Pipe construction to improve the collision resistance and speed

Blind Source Separation using STFT and Spatial Sparsity An approach to solve the Cocktatil Party Problem - separate signals of distinct individuals by exploiting their Spatial Sparsity in frequency domain using Short Time Fourier Transform

Comparison of NoSQL databases Comparison of Mongo and CouchDB databases from a use case standpoint

TFIDF Computation using MPI Parallel computation of distributed in-memory graph for text documents across multiple nodes using MPI

Building a DB specific kernel Compile a minimal kernel targeted at running only a single instance of database

Certification

Cisco Certified Network Associate Completed CCNA during October 2011. CSCO ID CSCO11982736

Extra-curricular Engagements

Mozilla Community Member of Mozilla India community, served as lead for Project News Mozilla.

Editor, 4Cast Review and write articles about gadgets and technology

Web Developer/Designer, NetworkGeek Developed the site for NetworkGeek training academy