

Don Kurian Dennis

Undergrad | Department of CSE, IIT Patna

about

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languages

Hindi/English
Malayalam

programming

primarily

C, C++, QT

experienced with

Java, Python

Scala

HTML, CSS, JS

MySQL

Django

Hadoop

gdb, valgrind

git, svn

GNU/Linux

Bash, Perl

Experience

Since May '16

Singapore University of Technology and Design

Research Intern, Center for Smart Systems (CS2)

Working on various projects such as - the development of a universal gateway for smart system protocols (BLE, ZigBee etc), configuring and deploying weather sensor apparatus across Singapore and creating a data analytics framework for it, setting up and configuring the lab data center, etc.

May '15 - Jan '16

IIIT Delhi: Large Graph Analysis using MapReduce

Research Intern

Github:BigDataExperiments

Assembled and configured a cluster of Hadoop systems, translated classical RAM model algorithms to the Map-Reduce Model of distributed computing and analysed large social network connectivity graphs using the same.

May - Aug, '15

Google Summer of Code '15

Student Intern, Minnowboard

Github:WITCH_On_A_Board

Created a core implementation of the decimal logic dekatron computer (Harwell Computer), for the 64 bit version of *Minnowboard Max (Intel Open Hardware)*. The project helped raise a **50,000 £** funding for TNMOC, UK.

Nov, '14 - Jan, '15

Mixxx Project

Open Source Contributor

Github:mixxx

Mixxx Project - a free and open source DJing Platform. Worked specifically on the autoDJ engine - a completely autonomous DJing engine aimed at automating the music mixing process for cases where the DJ is away from his deck.

Aug - Nov, '15

ToyOS

Author

Github:tinyOS

Created an enhanced implementation of a Pintos - an x86 operating system written in C and Assembly. Implemented scheduling, thread synchronisation, virtual memory etc

Education

since 2013

Undergraduate studies

Semester VI completed, CPI 8.3

Computer Science and Engineering, Indian Institute of Technology Patna

2012

Higher Secondary Studies

Percentage Marks: 93%

Kendriya Vidyalaya 2, Delhi Cantonment

2010

Secondary Studies

CPI 9.6

Kendriya Vidyalaya 2, Delhi Cantonment

Projects

Mar, '16	CHORD ACM-SIGCOMM Implemented a top layer prototype of the Chord protocol for P2P network look-up. The protocol was outlined in the CHORD paper, ACM-SIGCOMM. Written in C++/QT.	GitHub:CHORD
Feb, '16	IRC model P2P Chat Client Wrote a C++/QT based chat GUI client supporting P2P chats and multi-member group chats. Completely decentralized except for authentication server.	GutHub:P2P-IRC
Jan, '16	NS2 Type Discrete Event Network Simulator A prototype model was created supporting the routing layer(network layer) and the TCP protocol with AIMD/CUBIC congestion control at the transport layer.	GutHub:TCP/IP-Sim
Jan, '16	Anwsha Capture The Flag '16 Rewrote the Anwsha '16 CTF framework in Django, developed it further and deployed it on our Anwsha '16 Apache servers within a weeks time.	GitHub:CaptureTheFlag-dep
March, '15	4 Bit CPU Implemented a multi-cycle 4 Bit CPU from basic gates supporting a segmented display and a minimal instruction set in three weeks time.	College Project

Additional Courses and Certifications

Jul, '15	Machine Learning An introductory course on machine learning by Andrew Ng, Stanford.	Coursera
Sep, '14	Hardware Software Interface Architecture specifics of x86 systems, hardware software interactions, assembly level programing etc.	Coursera
Jul, '14	Interactive Programming in Python A introduction to event driven programming using interactive programming in python.	Coursera

Positions of Importance

2015-16	Coordinator, NJACK Responsible for building a culture of tinkering and hacking on computer systems and technologies. Responsible for Linux division of NJACK.	Computer Science Club
2015-16	Coordinator, Entrepreneurship Club Responsible for media and public outreach and exposure of entrepreneurship club, its activities and in-campus startups.	Media and Public Relations