

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

May - Dec, '15

IIIT Delhi : Large Graph Analysis using MapReduce

Research Intern

GitHub:BigDataExperiments

Research focused on adapting RAM model algorithms, specifically connectivity and path analysis algorithms, to the MapReduce model of parallel distributed computing, to mine usage patterns, trends and other information from anonymized data.

May - Aug, '15

Google: SoC '15

Student Intern

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 TN-MOC, UK.

Nov, '14 - Jan, '15

Mixxx Project

Developer

GitHub:mixxx

Mixxx Project - a free and open source DJing Platform. Worked specifically on the autoDJ engine - a completely autonomous DJing engine which works by learning from the DJ's usage history and musical signature information retrieved from library.

Since July '15

Weave

Core Team Member

Start-up focused on developing an assisted online shopping experience using machine learning and AI tools. Part of the technological infrastructure and currently involved in the development of the representation learning and clustering based cross selling algorithm and virtual trial room.

Aug - Nov, '15

ToyOS

Author

GitHub:tinyOS

Created an enhanced implementation of a toyOS- an x86 operating system written in C and Assembly, supporting scheduling, virtual memory, basic file system etc

Education

since 2013

Undergraduate studies

CSE, Indian Institute of Technology Patna

Semester VI, SPI 8.67, CPI 8.4

2012

Higher Secondary Studies

Kendriya Vidyalaya 2, Delhi Cantonment

Percentage Marks: 93%

2010

Secondary Studies

Kendriya Vidyalaya 2, Delhi Cantonment

CPI 9.6

Projects

Mar, '16	CHORD ACM-SIGCOMM Implemented a top layer prototype of the Chord protocol for P2P network lookup. The protocol was outlined in the CHORD paper, ACM-SIGCOMM. Written in C++/QT.	College Project
Feb, '16	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.	GitHub: P2P Chat
Jan, '16	Anwasha '16 : CTF Developed and deployed a generic Capture The Flag interface as part of our college festival Anwasha '16 in just under two days time. Written in django and deployed with Apache/mod-wsgi.	GitHub: CaptureTheFlag-dep
Dec, '15	TelegramBot Developed an in-chat responsive Wikipedia preview bot for the Telegram interface using the Telegram Bot API. The bot is hosted on AWS.	Author and Maintainer
Dec, '15	NJATH 2 Rewriting our college fests legacy Treasure Hunt (NJATH) app in the Python/Django framework.	GitHub: njath2
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 programming 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	Coordinator, Entrepreneurship Club Responsible for media and public outreach and exposure of entrepreneurship club, its activities and in-campus startups.	Media and Public Relations