Don Kurian Dennis

Undergrad | Department of CSE, IIT Patna

about

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languages

bilingual Hindi/English
Malayalam

programming

primarily
C, C++
experienced with
QT, Java
HTML, CSS, JS,
MySQL
Django, Hadoop
gdb, valgrind
git, svn
GNU/Linux
Bash

Experience

May - July, '15

IIT Delhi : MapReduce
Research Intern

My research focused on adapting existing RAM model based algorithms to the MapReduce model of parallel distributed computing. I was responsible for devising efficient algorithms for SSSP, APSP and st-connectivity queries on very large social graphs. We were able to design an new approach to solving st connectivity whose efficiency is currently being tested.

May - Aug, '15

Google Summer of Code 2015: MinnowBoard
Student Intern

Studied and developed a core software simulator for the 1950s Harwell Computer, based on the Minnowboard Max - an open hardware development board with the Intel Atom processor.

Since Mar, '15

Witch-e Project
Contributor and Developer

Working as a core team member of the WITCH-E, an open source project which studies and replicates the engineering aspects of the WITCH (currently at The National Museum of Computing, Bletchley Park, UK) for using it as an educational tool to teach early computing methods to younger students. My software model helped TNMOC win a **50k pound funding**.

Nov, '14 - Jan, '15

Mixxx Project
Developer

Helped develop and improve the Mixxx Project- a free and open source DJing Platform. Worked specifically on the autoDJ feature of mixxx, deployed with Mixxx 2.0, our first major release of this decade.

Aug - Nov, '15

TinyOS

Created an enhanced implementation of a toyOS - a toy operating system- by implementing scheduling, dead lock removals, virtual memory etc. The project is targeted at the 80x86 architecture. The source code publicly hosted on github.

Education

since 2013	**Undergraduate Studies** Currently in semester V	BTech, Department of CSE, IIT Patna
2012	**Higher Secondary Studies**	Kendriya Vidyalaya 2, Delhi Cantt
2010	**Secondary Studies**	Kendriya Vidyalaya 2, Delhi Cantt

Projects

March, '15	**4 Bit CPU**	College Project

Our team of 3 were able to implement a multi-cycle 4 Bit CPU implementation with basic segmented display and a regular integer instruction set in three weeks time. I was additionally responsible for coming up with the CPU design, subject to parts availability and other constrains.

Dec, '14 - Mar, '15	**HRAM**	College Project

An interactive, secure and stable map based interface to facilitate hostel room allocations based on a preference list, by developing a 'fair' algorithm to mitigate concurrency conflicts. Deployed in beta phase.

Additional Courses and Certifications

Jul, '15	**Machine Learning**	Coursera

An introductory course on machine learning by Andrew Ng, Stanford.

Sep, '14	**Hardware Software Interface**	Coursera

Architecture specifics of x86 systems, hardware software interactions, assembly level programing etc.

Jul, '14	**Interactive Programming in Python**	Coursera

A introduction to event driven programming using interactive programming in python.

Positions of Importance

2015   **Coordinator, Computer Science Club, IITp**

2015   **Coordinator, Media & PR, Entrepreneurship Club, IITp**