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# **EDUCATION**

Year	Degree	Institution/Board	CPI/%
2015 (owngoted)	BTech-MTech Dual Degree (CSE)	HT Kannur	PG: 9.6/10.0
2015 (expected)	Diedi-Miedi Duai Degree (CSE)	111 Kanpur	UG: 9.1/10.0
2010	XII	KV ASC Center(S), Bangalore (CBSE)	96.8%
2008	X	KV ASC Center(S), Bangalore (CBSE)	98.2%

# TECHNICAL SKILLS

- ▶ Programming Languages: C/C++, Java, Python, Haskell, Scala, SQL, JavaScript
- ► Frameworks and Libraries: OpenCV, OpenMPI, AngularJS and AngularDart, Play, Drupal, CUDA
- ▶ Database: MySQL, Cassandra, Titan
- ► Tools and packages: LATEX, bash scripting, git, make, octave

# **INTERNSHIPS**

# Self Tuning Optimizer in MariaDB

Google Summer of Code, May-August 2014

- ▶ Replaced the hard-coded constants in MySQL server optimizer with self tuning coefficients, resulting into better query plans
- ▶ Involved understanding MySQL server internals, coding in C++, version control using git, building a project using cmake

# Canary services for Facebook infrastructure

Facebook Inc., Menlo Park, USA, May-July 2013

- ▶ Learnt about existing tools that various teams in Facebook use for deploying canary services
- ► Consolidated these tools into a more generic framework
- ▶ Involved working with large scale distributed systems that stand at foundation of Facebook infrastructure, advanced python coding, git, MySQL etc.

# **PROJECTS**

# Distributed web application for IIT Kanpur

Dec 2012-present

- ▶ Designed a web application to bring all the activities involving logistics and information organization at a central place
- ▶ Used Angular Dart for frontend development, Scala and Titan (Cassandra) database in backend, Jenkins for deployment

# Detection of malicious nodes in unstructured P2P (Topics in Distributed Systems)

Aug-Nov 2013

▶ Implemented Group Malicious Detection algorithm, similar to Too Late algorithm for detection of malicious peers in an unstructured P2P network using Java and PeerSim

# **Higher Order Functions in C++** (Topics in Object Oriented Language Implementation)

Jan-April 2014

▶ Implemented a type-safe framework of C++ class templates (called Functoid) for higher order functions

### Browser-X: A simple browser written in Haskell (Functional Programming)

Jan-April 2013

▶ Implemented a basic browser in Haskell with both GUI and CLI using Network.HTTP, gtk, webkit and sqlite3

#### Other Course Projects

- ▶ Structure from Motion: Estimated 3-D structures from 2-D image sequences coupled with local motion signals
- ▶ Compilers: Created a compiler using LEX/YACC for the ADA language
- ▶ Computer Networks: Implemented ipconfig utilty to display information about all network interfaces

# SCHOLASTIC ACHIEVEMENTS

- ► Secured 2<sup>nd</sup> position in Kendriya Vidyalaya Sanghatan (KVS) at national level in class X CBSE
- ► Received Kishore Vaigyanik Protsahan Yogna (KVPY) scholarship in 2008
- ▶ Received National Talent Search Exam (NTSE) scholarship in 2008
- ▶ Attended International Mathematics Olympiad Training Camp (IMO-TC) organized at HBCSE, TIFR in 2009
- ▶ Received Academic Excellence Award for year 2010-11 and 2011-12 at IIT Kanpur

# POSITIONS OF RESPONSIBILITY

### Coordinator, Programming Club

May 2012 - Mar 2013

► Conducted lectures and organized competitions on various topics including Competitive Programming, Web development and Application development

# Teaching Assistant for Algorithms II and ESC101

▶ Apart from designing and evaluating assignments, helped students in understanding the course content

# Link Student, Counselling Service

2012-13

▶ Helped an academically weak student in all of his courses