

Curriculum Vitae

Abdullah Abdul Khadir

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Objectives

Short Term :

To contribute in the workplace by applying whatever I have mastered in computer science like programming principles, distributed systems , logic, algorithms , automata theory, graph theory.

Long Term :

To make quality contributions in key technology areas that will improve and/or stabilize the position of the company in the market and to be part of teams that make innovative products.

Skills

1. Practice

a) Programming

- Declarative languages – html, sql, latex.
- Imperative Languages – C,C++,Java, python.
- Functional programming – lisp, haskell, prolog.

b) **Databases**

- Worked with oracle, mysql systems.
- Have good understanding of theory of RDBMS.
- Have learnt some amount of internals of mysql 5.1

c) **Operating Systems**

- Have programmed on and used windows, linux, Mac
- Familiar with internals of some aspects of linux.
- Gave a presentation on file systems in minix.

d) **Others**

- Open Source Software — using, developing, exploring emacs, vim, linux internals, device drivers, bootloaders, latex, applications built on lisp.
- Blogging – mainly related to open source softwares.
- Recreational mathematics – Reading and solving interesting puzzles.

2. Theory

a) **Logic**

- propositional logic and connections with complexity.
- first order, second order, monadic second order logics.
- modal logic, temporal logics such as LTL, CTL, CTL*. Also learnt algebraic techniques like bisimulation invariance alongwith applications to verification of distributed systems.

b) **Automata Theory**

- In-depth knowledge of finite state automata, context free languages, turing machines alongwith their connections to actual tools like compilers, programming languages etc.,
- Tree automata, automata over graphs.
- Data automata, timed automata, Petri nets.

c) **Verification**

- Connections between logic and automata theory.
- Buchi's theorem, Rabin's theorem and related subjects.
- Verification of infinite state systems by formally specifying properties in suitable logics and then their associated decision procedures for model-checking the same.

d) **Others**

- Basic Algorithms – sorting, searching, algorithms over trees, graphs.
- Specialized algorithms for automated verification of computer systems.
- Distributed algorithms, complexity, graph theory.

Personality Traits

The three characteristics that I would love to describe myself and my work are

- Simplicity
- Honesty and
- Elegance

Being simple is the quality that helps one to get a lot of work done with lesser overhead (with respect to time and money) along with a high sense of clarity. However, this is not easy and requires a lot of discipline. Being honest with oneself and others helps one to attain this level of clarity and simplicity. To my knowledge and from my experiences, both above qualities are necessary and guarantee elegance in ones work.

Academic Profile

- M2, MPRI from LSV, ENS De Cachan in September 2011.
- MSc(CS) from Chennai Mathematical Institute in July 2010 with a GPA of 9.41 (out of 10).
- B.E. in Computer Science and Engineering in June 2008 from Anna University with an aggregate of 79%.
- Higher Secondary from St. Bede's A.I.H.S.S in 2004 with an aggregate of 92.5%.
- 10th Standard from St.Bede's A.I.H.S.S in 2002 with an aggregate of 90.4%/

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