

Amit K. Mathur

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- WORK EXPERIENCE**
- ◇ **SDE, Amazon Software Development Centre, Bangalore, India (Mar 05 – May 08)**, Worked on Flexible Payments System, a payments web service product of Amazon Web Services; worked on building highly available and scalable Web-services and Web applications.
 - ◇ **SMTS, Magma Design Automation, Bangalore, India (Oct 03 – Feb 05)**, Worked on improving and maintaining optimization and buffering algorithms which are part of RTL to GDSII flow.
 - ◇ **SMTS with Elixent Ltd., Bristol, England (Dec 01 – Sept 03)** Design and implementation of place and route (clustering, mapping, placement and routing) software tool for the Elixent's reconfigurable architecture.
 - ◇ **SE with Cadence Design Systems, Noida, India (Jun 00 – Oct 01)**
 - Supporting and making some key enhancement to "Verilog Integration" (a glue tool between Schematic capture and Verilog simulator)
 - Implemented LEF/DEF to/from Cadence Database translators.
 - ◇ **B.Tech Project (Jul 99 – Apr 00)** Design and implementation of a Parallel Programming Environment using a Network of Workstations. Implemented an extension of C++ to support parallel programming on it which used Hoare's CSP to support parallel programming.
 - ◇ **Other Graduate course projects (jun 96 – Apr 99)**
 - Design of a space efficient data structures, using BDDs, for storing large weighted graphs with possible trade-offs in runtime.
 - Designed and implemented a compiler for a subset of C.
 - Develop a natural language front-end to the underlying database.
- SKILLS**
- ◇ Proficient in C, C++, Java, Perl, SKILL (a dialect of LISP), Tcl and Ruby.
 - ◇ Other Languages known are: various scripting languages(sh, bash, csh, awk and sed), Fortran, Basic, and Pascal.
 - ◇ OSes: Linux/Intel 80x86, Linux/Opteron, Solaris/sparc, DEC-OSF/alfa, HP-UX and MS-DOS, WindowsNT.
 - ◇ Version Management System: SVN, CVS, RCS and Clearcase.
 - ◇ Software Engineering Tools: Purecov, Purify, Quantify, gprof, Make.
- EDUCATION**
- ◇ **B.Tech(Computer Sc & Engg) IIT Kharagpur C.G.P.A = 8.90/10.00**
 - ◇ **A.I.S.S.C.E(class 12th) Delhi Public School,Bokaro Percentage=87.8%**
 - ◇ **A.I.S.S.E(class 10th) R.K. Mission Vidyapith, Deoghar Percentage = 83.8%**
 - ◇ **Academic Honours/Awards:**
 - Awarded J. B. National Science Talent Search Scholarship (1996-2000)
 - Awarded Erore Scholarship by the Erore Educational Foundation (1994-1996).
 - Awarded Scholarship by the DoE, Government of India, for science (1994).
- EXTRA-CURRICULAR ACTIVITIES**
- ◇ **Robotics** using Lego Mindstorms, Home Automation
 - ◇ **Sketching and painting**; Reading books and magazines; international politics.
 - ◇ **Debating, Extempore Speech, Dramatics, Athletics, Karate.**
- REFERENCE** Available on request.