

Saurya Simha Velagapudi

Present Address

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Contact Info

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Objective

To obtain a full-time position that will not only utilize my software engineering, interpersonal communication and computer science skills, but also improve them.

Education

Sc.B. in Computer Science, Brown University, Providence, RI, May 2010

Experience

Head Teaching Assistant - Computer Security, Brown University
Providence, RI

Spring 2009

- Created a vulnerable course management website as a final project for students to attack. Managed a small team of undergraduate TAs.
- Responsibilities included grading homeworks, reviewing projects, holding office hours, managing the other teaching assistants and helping students. Topics included access control, network protocols, file systems.
- Designed homework problems including dictionary attacks and Debian OpenSSL vulnerability.

Teaching Assistant - Models of Computation, Brown University
Providence, RI

Fall 2008

- On own initiative created a program for testing the equivalence of regular expressions to ease grading with the help of the rest of the TA staff
- Created homeworks, graded homeworks, administered labs, held office hours and helped students with problem sets involving automata, Turing machines, and computational complexity.

Database Programmer and Researcher, Brown University
Providence, RI

Summer 2009

- Created new assignments for an undergraduate course on Database Management Systems
 - Wrote and debugged support code for database internal assignments; a query optimizer and query executor. Students are expected to use the support code to finish the assignment.
 - Created support code for ETL(Extraction, Transformation, Loading) tools and database tuning assignments.
- Researched various statistical methods for workload analysis on a parallel main-memory database.

Simulation Programmer, Brown University
Providence, RI

Summer 2008

- Developed simulations of peer-to-peer network economies in Java
- Worked in a team to produce and present reports on the results of the simulations to the rest of the research group and advisors.

Coursework

Parallel and Distributed Systems (Graduate Level)
Database Management Systems
Computer Systems Security
Design and Analysis of Algorithms

Robotics
Operating Systems
Multiprocessor Synchronization
Algorithms in Computational Biology

**Computer
Skills**

Languages: JAVA (including AWT and Swing), Python, SQL, C, C++ (including Qt), PHP
Scripting: bash, expect, JavaScript
Other Technologies: Microsoft SQL Server, MySQL, Linux, CVS, SVN

**Academic
Honors**

Undergraduate Teaching and Research Award 2008 and 2009
National Merit Commended Scholar