

## ADITYA RAJ NAFDE

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### OBJECTIVE

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To pursue a career as a software developer and utilize my core technical, interpersonal and problem solving skills in developing cutting edge technologies.

### EDUCATION

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#### **Masters Degree in Computer Engineering**, May 2010

University of Florida, Gainesville, FL, USA

GPA: 3.87 / 4.00

#### **Bachelors Degree in Computer Science Engineering**, June 2008

BITS Pilani, Goa campus, India

GPA: 9.48 / 10 (Ranked in top 5% in the institute)

### PROFESSIONAL EXPERIENCE

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#### **Web Developer, University of Florida**, December 2008 - present

- Designed and developed websites and databases for IFAS statistics department.
- Web technologies used : HTML, JavaScript, PHP, SQL

#### **Intern, YAHOO! Software Development Center Pvt. Ltd., Bangalore, India**, January - June 2008

##### **Project title: Generating regular expressions for clustered URLs**

- Implemented pattern matching algorithm on the sets of clustered URLs over the grid framework.
- Designed and implemented a platform that generated precise regular expressions for the clustered URLs using C++ platform.

### ACADEMIC PROJECTS

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#### **Project title: Simulation of distributed communication protocols**, October – November 2009

- Built communication protocols using Socket Programming & RMI for distributed systems using Java.

#### **Project title: Implementation of a P2P file sharing software similar to Bit- Torrent**, February - April 2009

- Design and development of the P2P file sharing software which implemented various features of the actual Bit-torrent protocol such as choking and un-choking of the peers.
- The project was developed in Java using the Net-Beans platform on a UNIX system.

#### **Project title: Modeling and development of Tomasulo algorithm for a pipelined processor**, February - March 2009

- Implemented Tomasulo algorithm along with a Branch Predictor (Using Branch Target Buffer) and a Load Store Queue (LSQ) for the pipelined processor which executed MIPS32 instructions.
- The C++ program simulated cycle by cycle execution of the instruction set.

#### **Project title: Implementation and analysis of advanced data structures**, November - December 2008

- Implemented and analyzed the performance of advanced data structures like BST's, Red Black Trees and AVL Trees using C++ in Microsoft Visual Studio environment

#### **Project title: Implementation of a secured server-client system in UNIX environment**, October - November 2008

- Designed and developed a secure server client protocol system in which a client can securely register itself with the server using Java on Net-Beans platform.
- Applied various secured encryption algorithm such as RSA, TEA etc and well known hashing algorithms such as MD5 and SHA.

### COURSEWORK

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- Analysis of algorithms, Computer networks, Distributed operating systems, Computer network security, Parallel computing, Database Systems, Parallel computing, Software testing and verification

### COMPUTER AND PROGRAMMING SKILLS

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- Languages: **C, C++, Java, JavaScript, SQL, PERL, HTML, PHP**
- Databases: **MySQL, Microsoft Access**
- Operating Systems: **Windows, Linux, UNIX**