

# Mihir Atmakuri Master of Science in Computer Science

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## Software Developer:

Object oriented design, analysis and development. Problem solving with Data Structures

## Skills:

1. Languages and Scripting Tools: C, C++, C#, Java, Perl, PL/SQL, JavaScript, HTML5, CSS3, XML, JSP
2. JDBC API, EJB, J2EE Framework, JavaBeans, Spring MVC, Hudson (continuous integration), Maven, soapUI and Subversion, WebLogic server.
3. Database: MySQL, SQL, JDBC
4. IDEs: Microsoft Visual Studio, NetBeans, Eclipse.

## Education:

Sept 2011 – May 2013 **University of Minnesota, Duluth**  
*MS Computer Science, GPA: 3.5/4.0*

Aug 2006 – Aug 2010 **Birla Institute of Technology & Science, Pilani, India**  
*BE Computer Science*

## Related experience:

### Web Systems Specialist at Health Partners, Duluth (August 2013 - Present)

- Experience utilizing Java tools in Web and Client-server environments using Enterprise Java Bean, Java Platform Enterprise Edition, JDBC technologies
- I develop, test and deploy bug Fixes for Java-based web applications in an Agile development environment.
- Developing and Maintaining internal Build and Release application. It interacts with WebLogic servers and databases. Its functions range from performing deployments, un-deployments, consistency checks etc.
- Consult with Business users and member services to ensure the application works as intended.
- I ensure smooth functioning of the test environments by resolving the conflicts in WebLogic console.
- As part of a 4 member team help resolve the bugs in production and test environments using soapUI, Java debugger etc.

## Projects:

1. Ray Tracer
  - Used C++ and implemented a Whitted style ray tracer utilizing the object oriented concepts such as **Polymorphism, Inheritance** etc.
  - Implemented Cook distribution ray tracer algorithms in **C++**
  - Achieved acceleration to the algorithm by implementing a recursive bounding volume hierarchy data structure.
2. Natural Language Processing
  - Developed a **Naïve Bayesian classifier** for word sense disambiguation
  - Studied frequency estimation of words in huge text by utilizing the **Good Turing smoothing** technique
  - Implemented "Viterbi Algorithm" and used it in developing a parts of speech tagger.
  - Implemented a program which generates a dictionary of semantically similar words given an input
3. Snippet Generation for Documents
  - Developed a snippet generation strategy by using query expansion and other Information Retrieval techniques.
  - Relevant meaningful Snippets are generated given a query and a set of Wikipedia documents.

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## **Leadership:**

Graduate Teaching Assistant at University of Minnesota, Duluth

(Aug 2011 – May 2013)

Guided students towards their academic goals by helping them improve their programming skills and the approach to problems. GTA for Visual Basic, Computer Science 1, Web Programming, and Object oriented Programming in C# and Computer Science Theory.

## **Course Work in Masters:**

Advanced Computer Graphics

Advanced Data Structures & Algorithms

Advanced System Programming (Emphasis on Compiler construction)

Natural Language Processing

Advanced Computational Logic

Abstract Algebra

## **Previous Experience:**

PHP and JavaScript web developer at Rupeetalk Financial Services, Mumbai (January 2010 – June 2010)

- Developed calculators that calculate Loan Eligibility, Affordability and Benefits based on user queries.
- Calculators interact with servers and give suggestions on Bank loans etc.
- Developed using **PHP** with **Apache** as the server (WAMP). **JavaScript** is used to give a nice look and feel and also it helps in form validation and other tasks. Database used is **MySQL**, layout and design using **HTML**, **CSS**, **jQuery**.
- Developed backend administrative and management website and tools using PHP.
- These tools help in moderating the reviews posted by the users with authorization control and maintain a list of top reviewers using their email addresses.
- These reviews are stored in the database and can be administered by the manager with the help of management tools designed using **PHP**