SHASHANK MUCHELI

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Research / Professional Interests

Operating Systems, Web Programming, Parallel and Distributed Systems.

EDUCATION

University of Massachusetts Dartmouth

Masters, Computer and Information Science. Current GPA: 3.3

Parallel and Distributed Systems, Theoretical computer science, Advanced algorithms and complexity, Advanced computer systems, Artificial Intelligence, Large software systems, Paradigmatic software development, Gamification in Bioinformatics.

Bangalore University

Bachelors, Computer Applications. GPA: 3.5(64% aggregate)

TECHNICAL SKILLS

- Web Technologies: HTML, CSS, JavaScript and PHP.
- OO Technologies: Java and C++.
- Programming: C programming, Shell scripting.
- Databases: MySQL
- Revision control systems: Git and SVN.
- Web services: AWS (Amazon web services), Apache, Lighttpd.
- Content management systems: Wordpress, Drupal.
- Tools: Eclipse and Netbeans, Vim, Microsoft visual studio.
- Development: Logical, Analytical, Problem solving and Debugging skills.

WORK EXPERIENCE

University of Massachusetts Dartmouth (Graduate Research Assistant: Sept 2014 – Present)

Principal Investigator: Dr. Firas Khatib (Dept. of Computer and Information Science)

- **Foldit (http://fold.it/) :** Worked on the popular crowdsourcing protein folding game Foldit. Have worked on the introductory levels of the game by editing and modifying major portions of it.
- **Foldit website development environment:** worked on setting up a development environment for the website on a EC2 instance of AWS.
- **Slipknot detection algorithm:** working on an algorithm which detects slipknots in a protein chain and efficiently remove all of them from a protein chain which will result in improving the stability of the protein structure.

Wisely Online Services Pvt. Ltd (Application Developer: Sept 2013 – Jan 2014)
Developed, hosted and maintained projects of the firm's clients using PHP scripting, website and database design.
Projects:
- **Personality Smart:** A responsive web application which could evaluate a person's mindset based on quizzes and surveys. This website was developed using Codeigniter, a Model – View - Controller framework, and MySQL database.
- **Aptitude Testing Website**: One of Wisely's clients wanted a testing platform for a new course, which could log all the scores and contact details in a database and send out emails and generate custom score cards and email it using OO PHP, fPDF API and MySQL.
- **ManlyDeck Bar and Restaurant:** Developed parts of a website to book a deck, platter and hall online for ManlyDeck, a growing Australian Restaurant chain, providing multiple interfaces for admin, restaurant staff and the customer. Users could check the availability and book a deck/meal on any given date in the year. I worked on integrating PayPal to make the payments, developed using OO PHP, Codeigniter (MVC) and MySQL.
- **Engagewise.com:** A website to post ads to multiple groups and pages on Facebook at once and log all the leads generated. I integrated Facebook PHP API, using which the users could schedule posts to be made at a time zone specific time. The project also required an e-campaigning platform and a registration platform to manage payments, subscriptions, email reminders and updates using InfusionSoft API.

Direct-I Internet Solutions Pvt. Ltd. (Web Solutions Specialist: May 2012 – Feb 2013)
- Managed the web space on Linux and Windows servers, managing DNS records of domains, and troubleshooting customer complaints.
- Administered web space by creating, modifying, moving and organizing the data of clients.
- Performed domain management by adding the appropriate DNS records to respective domains such that they would point to the correct server and work as expected.
- Trained on sandbox servers with jailed logins to administer everything via command line.

Undergraduate Projects
- Developed a Billing and Inventory Management Software using Visual Basic 6.0 as front end and MySQL as a backend.
- Developed a site which can be used for aptitude testing by the companies and institutes to test the students using HTML, CSS, JavaScript (jQuery Library), PHP, MySQL

OTHER ACTIVITIES:
- Represented the college to the NAAC committee during 2009 and played a crucial role in acquiring the prestigious accreditation.
- Won 1st prize in IT quiz in the 2010 College Tech Fest.
- Other interests include reading novels, listening to music, reading tech sites, exploring tips and tricks, and event management - I have successfully coordinated technical and non-technical events in my college.