

Ketan D. Deshmukh

ketandes@buffalo.edu | +1 716 445 8917 | 136 Englewood Avenue, Buffalo, NY 14214 | www.linkedin.com/in/ketandeshmukh

EDUCATION

University at Buffalo, State University of New York

Master of Science, Computer Science | *Expected in Dec 2014* | GPA : 3.47 / 4

Pune Institute of Computer Technology, Pune, India

Bachelor of Engineering in Computer Engineering | Graduated in Feb 2011 | GPA : 3.3 / 4

TECHNICAL SKILLS

Proficient in C, Ruby, Java, Ruby on Rails, Html, CSS, JavaScript, JQuery | Working knowledge of Python, C++, Android

Other Keywords - OOD, Bootstrap, AJAX, REST, JSON, RSpec, TDD, ActiveMerchant, Agile, MySQL, PGSQL

Courses - Database Systems, Data Mining, Operating Systems, Distributed Systems, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE - USA

Software Engineering Intern (Remote) - Staffing & Payroll Solutions, Canisteo, NY [Aug 2014 - Present]

- Responsible for Refactoring, Redesigning & Rewriting the old application (currently in production) from scratch
- Handling several challenges like - Reverse Engineering, OOD of the complete architecture, Securing sensitive data
- Skills : Ruby on Rails, HTML 5, CSS 3, PostgreSQL, RSpec, JavaScript, JQuery, Bootstrap

Software Engineering Intern - Big Purple Dot, Irvine, CA [May 2014 - Aug 2014] | [www.bigpurpledot.com/]

- Investigating requirements & architecting features conceptually using OOD based on the gathered requirements
- Designed and implemented Billing Module | Round Robin Lead Distribution Engine | Worked on Query optimization
- Skills : Ruby on Rails, HTML 5, CSS 3, PostgreSQL, RSpec, JavaScript, JQuery, Twilio API, ActiveMerchant

PROFESSIONAL EXPERIENCE - India

PROJECTS

1. Ruby on Rails Engineer - Idyllic Software, Pune, India [Aug 2012 - Jun 2013]

- My Teams Edge - A Web app that helps athletic programs become more productive | [www.myteamsedge.com]
- Mind Your Pitch - Create an elevator pitch for yourself/your business | [www.mindyourpitch.com]
- Technical Talk - Scaling Your Web Application | [<http://slidesha.re/19E13xH>]

2. Software Engineer - Josh Software, Pune, India [July 2010 - Dec 2010]

- Samhita - Platform for NGOs to publicize projects and raise funds | [www.samhita.org]

ROLES & RESPONSIBILITIES

- Full Stack Web Developer responsible for building Web Application from scratch
- Worked extensively on Ruby (1.9.3 & 2.1) , Rails (3.2 & 4.1) on the backend to create an elegant MVC architecture
- Worked with various Databases like MySQL, PostgreSQL
- Wrote tests to ensure correctness of the features implemented using RSpec & FactoryGirl
- Developed the Front-end of the application with HTML5, JQuery, Javascript, CSS3 and Twitter Bootstrap

ACADEMIC PROJECTS - University at Buffalo Course Work | [www.github.com/ketan37dm]

Relational Query Engine - SPJUA Query Evaluator [Skills : Database Systems, Java, JSQL Parser, Visitor Pattern]

- Implemented a SQL query evaluator with a support for Select, Project, Join, Union & Aggregate operations
- Wrote an optimizer that uses Hybrid hash join, External Merge Sort as well as B+ tree/Hash indexes for optimization

Mining Association Rules From Gene Expression Data [Skills : Data Mining, Java]

- Implemented Apriori Algorithm to find Frequent Item sets for given support
- Used these item sets to generate association rules that satisfy prerequisites of given templates and minimum confidence

Multi-Threaded Web Server [Skills : Operating Systems, C/C++, POSIX Thread Library, Unix Socket Programming]

- Implemented Queuing and Scheduling module on separate thread & Dispatcher module using thread pool of worker threads
- Implemented SJF & FCFS scheduling policies to serve the requests

Amazon's Mini Dynamo [Skills : Distributed Systems, Java, Android, SQLite]

- Developed a Stripped Down version of Amazon's mini DynamoDB - a backend storage with real time node joins
- Implemented ID based partitioning and Quorum based replication with the support of failure handling

Totally and Causally Ordered Group Messenger [Skills : Distributed Systems, Java, Android, SQLite]

- Used Sequencer algorithm to preserve total as well as causal ordering of the messages shared by distributed nodes
- Implemented a key-value storage for storing the messages using SQLite