

# Prathamesh Verlekar

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## EDUCATION

### Master of Science in Computer Science

3.4/4.0

Colorado State University

Graduation date: **Summer 2014**

**Thesis:** Detecting interface errors using Error-Related EEG Potentials Generated during Simulated Brain Computer Interaction.

### Bachelor of Engineering in Information Technology

70/100

University of Mumbai, India

Graduation date: **May 2010**

**Thesis:** Content based image retrieval using image fragmentation and energy compaction.

## KEY SKILLS

**Languages:** Java, XSL, BML, JavaScript, .NET, C#, C, C++, Python, R, MATLAB, SQL, ColdFusion, PHP.

**Technologies:** HTML, CSS, SASS, LESS, jQuery, AJAX, MS SharePoint, MS Dynamics, SSIS, MySQL, SVN, LaTeX, Joomla, Drupal, AngularJS, Responsive Web Design, Style Guide Driven Development.

## ENGINEERING EXPERIENCE

### Senior Associate Software Engineer

Sep 2016 – Present

Cerner Corporation, Kansas City, MO USA

- Working with Cerner's Contract Management, Pricing & Packaging, Business, Consulting and Oracle's Configuration, Pricing and Quoting (**CPQ**) Engineering team to streamline requirements and add new functionality to Cerner's CPQ implementation.
- Serving as a Subject Matter Expert on the Document Engine, Commerce and Configuration modules of CPQ to add new solutions, create new functionality using BML and to maintain Cerner's document generation templates.

### Software Engineer

Aug 2015 – Sep 2016

Cerner Corporation, Kansas City, MO USA

- Writing configuration, validation and hiding rules, constraints within Oracle's CPQ platform.
- Using BigMachines Language (**BML**) and **BMQL** to write commerce and util functions.
- Creating dynamic, multi-output documents using **XSL**, **XSLT** and **XSL-FO** within the Document Engine and Document Designer.
- Creating and maintaining **SSIS** packages to facilitate web integrations between **MS Dynamics** and CPQ.

### Software Developer

Dec 2013 – Jun 2015

PCE Inc., Fort Collins, CO USA

- Part of the engineering team which handles bug fixes, provides feature enhancements and performs unit testing using **Niagara** and **Play** frameworks in **Java**.
- Creating Robot Editor Scripts for clients located across USA for upgrading them to the latest release of the **Geist Environet** solution.
- Implementing multi-tier **Licensing** functionality to categorize different Geist devices along with a secure frontend to toggle tiers to generate a steady revenue stream.

### IT Intern

Jun 2013 – Aug 2013

Wolf Robotics LLC, Fort Collins, CO USA

- Developing a **SharePoint** portal in **MS Visual Studio 2012** using **ASP.NET 4.0** framework to provide a link between the Sales and Project Management departments.

- Developed 4 **Webparts** and 3 **Site templates** using **C#, MS SQL Server '12** and **jQuery** to incorporate custom features to the existing Sales web portal.

### **Student Web Developer**

**Aug 2012 – Nov 2013**

*Natural Resources Ecology Laboratory, Colorado State University, Fort Collins, CO USA*

- Responsible for development of new web based features using **PHP, HTML5, CSS3, JavaScript, SQL Server '08** in the USDA funded project 'IDSource' to improve user experience in adding and searching the biological taxonomic hierarchy.
- Formulate techniques to efficiently query the **MySQL** database and optimize searching within the taxonomy using **PHP scripts**.

### **Web Programmer Intern**

**May 2012 - Jul 2012**

*Engineering & Network Services, Colorado State University, Fort Collins, CO USA*

- Developed and maintained web based reservations and help desk tools using **Trellis Desk**.
- Migrated existing web pages from **ColdFusion** to **PHP**.

### **Teaching Assistant**

**Aug 2011 - Dec 2011**

*Computer Science Department, Colorado State University, Fort Collins, CO USA*

- Taught programming in **Java** to a blind undergraduate student.

### **Lecturer**

**Jan 2011 - May 2011**

*Dept. of Information Technology, Thadomal Shahani Engg. College, (TSEC), Mumbai, India*

- Delivered lectures to and conducted lab sessions for five batches of 20 undergraduate students each in **Computer Programming (Java), Internet Programming, Industrial Storage Management and Game Architecture & Design**.

## **ACADEMIC PROJECTS**

### **Online Shopping Portal**

**Spring 2012**

- Created a user friendly Online Shopping Portal by using Agile software development principles.
- Designed the front end, database schema, core business logic and security aspects for centralized administration and maintenance of the portal.
- Technologies: *J2EE, JSP, HTML5, CSS3, JavaScript, jQuery*.

### **Stock Market Prediction**

**Fall 2011**

- Analyzed and investigated various Machine learning techniques to perform stock market prediction.
- Performed rigorous analysis using neural networks, Support Vector Machines and predicted stock trend using Twitter feeds.
- Language/tools: *Python, Perl, Yahoo finance API*

## **PUBLICATIONS**

### **CONFERENCES**

- Image retrieval using DCT on row mean, column mean and both with image fragmentation
- Performance evaluation of image retrieval using energy compaction and image tiling over DCT row mean and DCT column mean
- Network vaccination architecture

### **JOURNALS**

- Sparsity Regularization for classification of large dimensional data
- Energy compaction and image splitting for image retrieval using Kekre transform over row and column feature vectors
- Kekre transform over row mean, column mean and both using image tiling for image retrieval
- Walsh transform over row mean and column mean using image fragmentation and energy compaction for image retrieval