## Pradyumna Shembekar

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## Education

California State University

M.S., Electrical and Computer Engineering (3.5 GPA)

Gujarat Technological Institute

B.E., Electronics and Telecommunications

Los Angeles, CA

March 2014 - June 2016

India

July 2009 - May 2013

# Independent Projects (selected)

## • Reps & Sets (Ruby on Rails)

- A web-application to track your workouts and calculate your progress.
- Users can sign-up, search and follow friends, compare workouts.
- The app displays a graphical interpretation of the user's workouts.
- A Behavior Driven Development (BDD) approach with automated testing using RSpec, Capybara, and Guard testing suites. Deployed to Heroku.

### • Belly Bites (Ruby on Rails)

- A web-application to browse and create recipes.
- Users have the ability to sign up, up-vote recipes, add their own recipes, and check recipes added by other chefs.
- A Test-Driven-Development (TDD) approach, back-end framework in Ruby on Rails, and SQLite as database. Deployed to Heroku.

#### • Modified MIPS Lite (MML) Multi-cycle Design (3 members), (MIPS, Verilog)

- Designed multi-cycle datapath and the finite state machine for MML. Programmed ALU, clock generator, and contributed towards Main Controller.
- Played the role of a Lead Test Engineer, responsible for setting benchmark values for various modules.
- Simulated and tested use cases through **Xillix** software.

#### • Rice Rocks (Python)

- Web-based classic arcade game of a spaceship shooting missiles at rocks.
- Part of Coursera's course on Interactive Programming in Python

#### • Car Automation System (C, MIPS)

- Application to detect open doors and engine state of a car and display alerts on LCD.
- Used Motorolla 68HC11A8 micro-controller and simulated using **ThrSim11**.

# Work Experience

# Aflac, Inc. Developed a recruitment website.

Web Intern, Winter 2015

- Converted responsive HTML to dynamic content in PHP using elegant MVC design patterns and integrated with Wordpress.
- Used different JavaScript and CSS frameworks for better response time.

## • California State University

 $Text\ Transcriber,\ present$ 

- Transcribed textbooks into accessible formats on Kurzweil and Omnipage.
- Developed an accessible form in PHP for disabled students to submit requests for books online.

# Awards

#### • Woman's Health Alliance - Hackathon 2015

- Runners up team (6 members) in a hackathon organized by Woman's Health Alliance.
- Developed a web app to calculate a woman's risk of having a Cardio Vascular Disease (CVD) by setting threshold values obtained from cardiologists.