# Pradyumna Shembekar

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# Education

M.S., Computer and Systems Engineering B.E., Electronics and Telecommunication Engineering

California State University, Los Angeles Gujarat Technological University June 2016 3.5/4.0 May 2013

# Work Experience

#### • Web Developer - Intern, Aflac Inc, Los Angeles, Aug 2015 - December 2015

Created a recruitment website in PHP using elegant MVC design patterns. Integrated with Wordpress and developed a tablet and mobile version. Implemented efficient JavaScript for better response time. Communicated with the HR and design team to meet up with their requirements.

# • Text Transcriber, California State University, Los Angeles, Aug 2014 - March 2016

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

# Independent Projects (selected)

# • Reps & Sets %

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

#### • Belly Bites &

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**. (**Ruby on Rails**)

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

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. (MIPS, Verilog)

#### • Rice Rocks &

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

# • Car Automation System

Created an application to detect open doors and engine state of a car and display messages on LCD. Used Motorolla 68HC11A8 micro-controller and simulated using ThrSim11. (C, MIPS)

# **Awards**

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

Runners up team (6 members)

Developed a web app to calculate a woman's risk of having a Cardio Vascular Disease (CVD) by setting threshold values obtained from cardiologists.

# Skills

• Languages: C, C++, JavaScript, PHP, Python, Ruby, Swift