Pradyumna Shembekar

603 N Mentor Avenue
Pasadena, CA 91106
Phone: (323) 597-9301

Email: pshembe@calstatela.edu
Github: github.com/pradyumna2905
Linkedin: linkedin.com/in/pradyumnashembekar

Education

M.S., Computer and Systems Engineering	California State University, Los Angeles	**June 2016**	**3.5/4.0**
B.E., Electronics and Telecommunication Engineering	Gujarat Technological University	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. Used **AWS S3 bucket** to store images uploaded by the user. 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**