


# Prathmesh Desai

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San Francisco / Toronto / Dallas

## EDUCATION

**UNIVERSITY OF WATERLOO**  
CANDIDATE FOR BACHELOR OF  
COMPUTER SCIENCE, HONOURS  
2014 - 2019 | Waterloo, ON

## COURSEWORK

Functional Programming  
Algo. Design & Data Abstraction  
Logic & Computation  
Data Structures  
Sequential Programs  
OO Software Development  
Adv. Intro to Combinatorics  
AP Computer Science (HS)

## SKILLS

### PROGRAMMING

HTML	CSS	JS*
Matlab	LaTeX	Swift
Python*	SQL	LISP*
C	C++*	Java

### WEB SERVERS/SERVICES

Apache	Nginx*	RESTful*
SOAP	IIS	OAuth 2.0

### FRAMEWORKS

Express*	Jade	Wordpress
React*	React Native*	Django*
Angular	Rails	jQuery

### BACKEND TECHNOLOGIES

MongoDB*	Redis*	MySQL
AWS S3	PostgreSQL*	GraphQL

### GRAPHICS

Photoshop*	Illustrator	Maya*
InDesign	Blender	Sketch

### MISCELLANEOUS

Theatre   Directing   Poker\*

\*high proficiency

## LEGAL STATUS

Citizen of Canada  
Permanent Resident of The United States

## EXPERIENCE

### HORIZONS SCHOOL OF TECHNOLOGY | INSTRUCTOR

January 2017 – May 2017 | San Francisco, CA

- Instructed students on full-stack technologies (i.e. **JS/React/Redux/React Native/Node/Express/MongoDB/AWS/Redis/Mocha/Chai**)
- Developed exercises, quizzes, and exams to cover course material and solidify student understanding of taught services
- Lead standup & implemented **Agile** project management tactics for four different project teams
- Worked on a slack bot that matches on-duty instructors with students seeking help on Slack (deployed on **Heroku** and uses **PostgreSQL** & **Redis** to keep track of relevant data)

### FARMLOGS | SOFTWARE ENGINEERING INTERN

January 2016 – May 2016 | Ann Arbor, MI

- Maintained, tested, & added features to the FarmLogs WebApp and static site (using **React**, **Jasmine**, **Backbone**, and **HTML/CSS/jQuery**)
- Refactored established codebase to utilize **React**
- Leveraged understanding of **d3** to analyze data and create responsive, interactive charts/graphs
- Was an integral part of the Prescriptions (allow tractors to dispense appropriate amounts of Nitrogen on fields based on its' location) feature team, and participated in multiple feature specific sprints and daily **scrum**

### HUBDOC | SOFTWARE MARKETER & WEB DEVELOPER

May 2015 – August 2015 | Toronto, ON

- Responsible for end-to-end development of the static site
- Learned to use **Bootstrap** responsive web design, static asset management, and efficient web performance techniques
- Lead **social media marketing** at Hubdoc by routinely promoting both in-house & external accounting content via Twitter, LinkedIn, Facebook, and email
- Created **Python** web scrapers to crawl popular accounting directories and generate tens of thousands of new leads for the sales team

## PROJECTS

### TESSELLATE

An application that retrieves news articles for a stock, given a date-range

- Using **Python** to build a web crawler that archives news articles based on an inputted stock ticker
- Train a sentiment analysis model to accurately differentiate between negative/positive articles
- Leverage automatic data summarization to overlay 1-sentence causes behind bull/bear markets onto a stock price chart

### MOBILE ROBOT

Microcontroller-powered, wireless mobile robot

- Used a microcontroller, bluetooth and camera modules, and an IR proximity sensor to build a user-controlled robot that streamed video to a phone/laptop
- Architected a way to control the robot using **C++** and pulse-width modulation