Shantanu **Deshmukh**

RESEARCH ASSISTANT · GRADUATE STUDENT · SAN JOSE STATE UNIVERSITY

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Skills

Java, Python, Tensorflow, openCV, MongoDB, Node js, Express js, Angular, D3.js, Android Development, JSP, JavaScript, PHP, XSLT, jQuery, MySQL, LAMP, MySQL, Spring Framework, Web Development, HTML, CSS, Linux, Cascading Style Sheets (CSS)

Work Experience

San Jose State University
San Jose, CA

RESEARCH ASSISTANT
Jan. 2018 - PRESENT

- Working on image processing using openCV and AI algorithms to create visually appealing pictogram of the side effects of medicines & drugs;
- Using Mongo DB, Express js, Node js & Angular (MEAN) Stack to create an interactive portal, hosted on Google Cloud Platform's virtual instance;
- Awarded funds by the SJSU College of Science Research, Scholarship, and Creative Activity (RSCA) grant;

Deloitte Consulting LLP
Mumbai, India

BUSINESS TECHNOLOGY ANALYST (DELOITTE DIGITAL)
Nov. 2015 – Aug. 2017

- Coded business use cases in Java for a B2C website, creating REST-ful web services and helped integrating them with the angular front-end;
- Handled multiple project-critical complex modules, ensuring timely delivery, working under an Agile development model;
- Created a distributed data processing engine using Apache Storm and Apache Kafka, as a Firm initiative to be proposed to a prospective client;

Accenture Services Pvt. Ltd
Hyderabad, India

SOFTWARE ENGINEER
Aug. 2013 – Oct. 2015

- Designed and Developed REST-ful API's fetching data from a SOAP based service for a B2B website in Java along with their jUnit test cases ;
- As an initiative, created a XML based automated testing framework to test REST services, saving around 40% of the testing effort;
- Was awarded ACE(Accenture Celebrates Excellence) award for effective team-work and successfully delivering a high risk project;

City Synapse Info Pvt. Ltd. (Internship)
Bangalore, India

WEB DEVELOPER INTERN
Jan. 2012 - July. 2012

- Maintained the website realtykart.com; adding/editing webpages using full stack(LAMP), managing domains and hosting.
- Used google apps, AdWords, Designed and edited digital banners/images using Photoshop, gimp, etc.

Academic Projects

Obstacle Detection to help Visually Impaired (GuideApp - Android Application)
San Jose, CA

ANDROID SDK, TENSORFLOW LITE, PYTHON
Dec. 2017

- Created an application to alert visually impaired by detecting obstacles on the street
- Trained MobileNet model with self curated images to get an accuracy of 93%

Distributed Patient Information System Web API
San Jose, CA

JAVA, ACTIVE MQ, CASSANDRA DB, HAZELCAST CACHING, SPRING BOOT
Oct. 2017

- Built a REST-ful Web API using a distributed system architecture hosted on multiple AWS instances(PaaS)

Text Scrapper and Classifier
San Jose, CA

PYTHON, KNN ALGORITHM, K-MEANS ALGORITHM, TF-IDF
Sept. 2017

- Built a web scrapper to scrap jobs from a few job listing websites.
- Used tf-idf vectorization and k-NN algorithm to find the top matched jobs for a search query and grouped them using Lloyd's algorithm.

Visualization using Data Sonification and NLP for e-book comprehension using NLTK
San Jose, CA

PYTHON, NLTK, JYTHON, GENETIC ALGORITHM, BOOTSTRAP
Sept. 2017

- Used Jython music to sonify changes in California's temperature over last 80 years.
- POS tagged web scrapped e-books, extracted and visualized relationships between entities(characters and locations).
- Used genetic algorithm to auto-create a bootstrap based website using characters, locations and events from the book.

Image Classification, Clustering and Mutation
San Jose, CA

PYTHON, K-MEANS CLUSTERING, HIERARCHAL CLUSTERING, GENETIC ALGORITHM
Sept. 2017

- Classified and Clustered images using k-NN, K-Means and single link hierarchal clustering algorithm
- Performed three fold cross-validation, analyzed and plotted accuracy vs K graph
- Used genetic algorithm to mutate a source image into a destination image.

Data Visualization Web Apps *San Jose, CA*

Mongo DB, Express js, Angular js, Node js, D3.js *Nov. 2017*

- Visualized around 5GB of publicly available Obama government's social media data including images, videos and audios on a chronological time-line based interface
- Visualized California's college's admission data as a force directed graphs, for all academic year's from the year 2003 to 2016.

Proximity Notifier - An Android Application and a Web portal *Mumbai, IN*

Android SDK, Linux, Tomcat, PHP, MySQL *Nov. 2012 – April 2013*

- Created an Android Application and a web portal for proximity based notifications.
- Built using LAMP Stack and Google's Geolocation API.

Extracurricular Activity

Entrepreneurship Cell Website *Mumbai, India*

Linux, Apache Tomcat, MySQL, PHP *March. 2012*

- Worked as a Web Manager of Entrepreneurship Cell, an association managed by students to promote entrepreneurial thinking.
- Created their web portal and developed an on-line treasure hunt for their annual event using LAMP stack.

YouTube Channel tutoring Android Application Development *Mumbai, India*

Co-Author *Mar. 2012*

- Started a you-tube channel tutoring android application development, it has around 18k views.

Education

San Jose State University *San Jose, CA*

M.S. in Computer Science **(GPA 4.0)** *Aug. 2017 - Exp. May. 2019*

KJ Somaiya Institute of Engineering and Information Technology *Mumbai, India*

B.S. in Computer Engineering *July. 2009 - May. 2013*

Program Committees

2012	**Web Manager**, Entrepreneurship Cell		*Mumbai, India*
2011	**Event Organizer**, Computer Society of India		*Mumbai, India*

Honors & Awards

Work

2017	**SAP Certified Development Professional**, SAP Hybris Commerce 6.0		*Mumbai, India*
2016	**Applause Award**, For Diligent work and Resourcefulness		*Mumbai, India*
2014	**ACE Award**, For good communication and effective team work to successfully delivery a high risk project	*Hyderabad, India*

Education

2011	**Finalist**, National Level Technical Paper Presentation, RAIT, Mumbai.		*Mumbai, India*
2011	**Finalist**, Project Presentation Competition, Fc.RIT, Mumbai		*Mumbai, India*