

# Rohit Sahasrabuddhe

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## EDUCATION

### Master's in Computer Science

CGPA 3.62/4.0

University of Southern California, Los Angeles, California.

May 2019

Courses: Analysis of Algorithms, Foundation of AI, Machine Learning, Database Systems, Information Retrieval, Robotics

### Bachelor's in Computer Science and Engineering

CGPA 9.06/10.0

S.G.G.S. Institute of Engineering & Technology, Maharashtra, India.

June 2015

## SKILLS

### Programming

Java, C, JavaScript, HTML, CSS (Proficient)  
Python, PHP, C#, ASP.NET, VB.NET (Familiar)

### Database

MySQL, MongoDB, Oracle 11g, PostGIS, NoSQL

### Servers, Frameworks & Tools

Node.js, AngularJS, jQuery, Bootstrap, Android SDK, Git (Proficient)  
AWS, TensorFlow, Flask, Spring, Hibernate, Struts (Familiar)

## WORK EXPERIENCE

### Student Software Engineer

January 2018 - Present

USC Cancer Research Informatics Core, Los Angeles, CA. (1 Year)

- Built a web portal for cancer researchers at USC using **ASP.NET**, **MySQL** to study and maintain medical journals.
- Designed a **responsive website** using **Bootstrap**, **jQuery** for Genomics team to maintain their laboratory services.
- Developed a room reservation and event management system for USC Norris Cancer Center using **VB.NET**, **MySQL**.
- Created **custom applications**, databases, surveys and **websites** for multiple cancer research groups to enable efficient reporting and analytics on various cancer studies.

### Software Engineer

September 2015 - August 2017

Tata Consultancy Services, Hyderabad, India. (2 Year)

- Developed a **Java web** application using **Spring** and **Hibernate 3** frameworks to view high level data related to all products manufactured at Ericsson.
- Upgraded web application by adding report generation system to view/analyze product features using **Java APIs**.
- Deployed **shell scripts** using cron jobs on Unix servers to start data importer, to mail running status of application and to generate status logs which automated application maintenance activities.

## PROJECTS

### Virtual Assistant (Chatbot): Web Application

[git.io/vpjYu](https://git.io/vpjYu)

- Designed a **virtual interactive agent** using chatterbot **Python** API and **Node.js** for FAQs at USC computer store.
- Programmed **Python** scripts to extract dialog flows, and to analyze & train the chatbot model according to USC computer store conversation.

### Handwritten Digit Recognizer: Web Application

[git.io/fNVeH](https://git.io/fNVeH)

- Trained a **Convolutional Neural model** built in **Python** to classify digits 0-9 using TensorFlow.
- Integrated the trained model on a **Flask** web application to classify user drawn images instantly.

### LA Times Search Engine: Web Application

- Developed a search engine using **PHP**, Apache **Solr** and **Tika** to search LA Times Articles based on input query.
- Added **spell-corrector** and **autocomplete** functionality to search engine using Solr fuzzy lookup factory.

### Super Fruit Riot: Android Game

[git.io/vNkCJ](https://git.io/vNkCJ)

- Built a **mobile game** like Candy Crush using Android Studio, where the user plays against an **AI agent**.
- Programmed an **intelligent agent** in **Java** which dynamically selects next move depending upon current state and time remaining.

### Icon3C: Website

[git.io/f4b9h](https://git.io/f4b9h)

- Launched a website for International Conference using **PHP**, **HTML**, **CSS** & **JavaScript** providing researchers online platform to participate in an international conference.

### Nanded City Guide Android Application

- Designed a **GPS** based android application which accessed **user location** and suggested nearby public services.
- Wrote a **Java** utility to retrieve public services list from database, according to information provided by user.