

# SANTHOSH NARAYANAN

2353 Portland St, #3, Los Angeles, CA 90007 | (313) 417-6755 | [santhosn@usc.edu](mailto:santhosn@usc.edu)  
[www.linkedin.com/in/santhosh1634](http://www.linkedin.com/in/santhosh1634) | <https://github.com/santhosh96>

## EDUCATION

---

- **University of Southern California Viterbi School of Engineering** **August 2018 - Present**  
*Master of Science in Computer Science*
- **K J Somaiya Institute of Engineering & I.T** **May 2014 – May 2018**  
*Bachelor of Engineering in Computer Engineering; GPA: 3.78/4*

## SKILLS

---

- **Programming languages:** Java, Python, HTML, CSS, MySQL
- **Libraries & Packages:** NumPy, Pandas, Matplotlib, Scikit-learn, Scrapy, Flask
- **Services & Applications:** AWS, Jupyter, Spyder, Netbeans

## EXPERIENCE

---

- Intelligent Quotient Security System – Web Developer** **January 2017 – April 2017**
- Built modules for Digital examination delivery portal for universities in Maharashtra.
  - Developed course management system and exam management system, for assigning courses to designated institutes and scheduling the delivery of question papers online.
  - Languages used: HTML, PHP, JavaScript, Bootstrap, Ajax, JQuery.

- Intelegain Technologies – AWS Intern** **June 2016 – July 2016**
- Practically learnt and implemented different services in AWS such as EC2, S3 and RDS.
  - Designed a WordPress website featuring personal experience working with AWS and hosted the same on an EC2 server supported by S3 and RDS.
  - Maintained AWS infrastructure for institute's annual technical festival website, by hosting the website on an EC2 Ubuntu server.

- K J Somaiya Inst. of Engg. & I.T – Penetration tester** **December 2016 – January 2016**
- Conducted penetration testing for institute's online admission and examination portal.
  - Performed authentication checks, access control checks, per screen checks (XSS, SQL injection.).
  - Delivered error free application, incorporating patches for the respective bugs using ASP.NET

## PROJECTS

---

- Automated detection of fungal elements of Tinea using Deep learning – (Keras, Flask, HTML, CSS)**
- Devised a system that can assist doctors diagnosing skin infection caused by Tinea (fungal infection), reduced diagnosing time effectively from 1-2 minutes to 3-5 seconds.
  - Constructed a CNN model employing Inception V3 for binary classification of positive and negative cases of the specimens.
  - Created a web application based on HTML, CSS and Flask for interfacing the system that allows user to input the specimen image and generate report along with medication.

- LAN Based Shared Storage System – (Samba)**
- Built a Samba based storage solution for logically combining free storages of different machines connected on a LAN into a pool of single large storage.
  - Deployed the system in computer labs of the institute and reduced the cost for purchasing external storages at the department.

- Educational Event Management System – (HTML, CSS, Bootstrap, JavaScript, MySQL)**
- Implemented a web based Event management system for department's small and large-scale events.
  - Designed modules such as event details, registration, event schedule, volunteer management and sponsor management.

## ACTIVITIES & ACCOMPLISHMENTS

---

- Volunteered DataConLA 2018 held at University of Southern California.
- Received academic excellence award and scholarship for best academic performer in Computer Engineering department, consecutively for three years.
- Completed *Oracle certified professional, Java SE 6 Programmer* certification. (OC1667437).
- Delivered a talk on *Engineering Education in India* to the high school students of Vani Vidyalaya School Thane.