

# SWAPNIL TANEJA

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## Education

**UC San Diego** – MS in Computer Science, (**CGPA – 3.67/4**)

(Sep '16 – Jun '18)

- Courses - Algorithm Design and Analysis, Principles of Data Base Systems, Probabilistic Reasoning & Learning (AI)
- Tata Scholar – Awarded Scholarship for higher education among 50000 applicants in 2016.

**Indian Institute of Technology, Roorkee** - B. Tech, Electrical Engineering, (**CGPA – 4.0/4**)

(Jul '10 – May '14)

- Courses – Data Structures and Algorithms, Discrete Structures, Image Processing, Cryptography
- Secured JEE (Joint Entrance Examination) Rank – 1601 among 460,000 candidates in 2010

## Work Experience

**Oracle Corporation, Software Developer**

(Jun '14 – Aug '16)

- Enhanced the automation framework code, Fusion Applications Provisioning, by merging similar procedures and removing redundancies– **ANT, Java**  
Impact: Improved running time of provisioning framework by 20%.
- Built a research project - a tool called *Log Miner* to predict the cause of logged errors using Machine Learning algorithms. Got featured in Oracle Social Network for leveraging IEEE research – **Java, KNN** and **decision trees**.  
Impact: Achieved an **accuracy of 90%**, significantly reducing the time for parsing logs and debugging.
- Wrote Life Cycle Management Read APIs using Introspection and Topology manager APIs - **Java**  
Impact: Used by Patching, Upgrade and E2E automation teams.
- Developed plugins for Health Checker framework for validating provisioned environments – **Java, ANT**  
Impact: Used extensively on a day to day basis for validating customer environments.

**Hewlett Packard Education Services, Brand Ambassador, Intern**

(Jun '13 - Jul '13 & May '12 - Jun '12)

- Secured the Title of Brand Ambassador for two years 2012 and 2013 for excellent performance during internships.
- Developed a website prototype for airline reservation. The task was to implement and test a scheduler for flights from different aerodromes preventing clashes - **Asp.Net, C#, SQL Server**
- Built a robot with an ability to never fall off the table. It can be additionally controlled by a computer and allows chat with other computer controlled bots - **Atmega 16 AVR, IR Sensors**.  
Impact: Solved the problem of limiting the bot within the boundaries and prevention from collisions and falling.

## Technical Skills

**Languages/Framework** - Java, C++, MySQL, Android, HTML, CSS, Python, Junit, C#

**Platform/Software/Tools** – Linux, MATLAB, SQL Server, Android Studio, Visual Studio, ANT, Gradle, OpenCV, Git

## Projects and Research

**Android Applications**

(Dec '16)

- Created the following Android apps and optimized the speed of background tasks making the interface more User friendly and Interactive.
  - Weather App: to display weather forecast for preferred location using Udacity API [\[Link\]](#)
  - Hydration Reminder: to promote timely drinking of water by notifying user every 30 min. while charging. [\[Link\]](#)
  - Music Visualizer: to display the higher, middle and lower range of frequencies of a song. [\[Link\]](#)

**Hangman**

(Sep '16)

- Developed a Hangman game model to get the next best guess for 5 lettered words based on a probabilistic model run on a corpus from WSJ articles. – **Java, MATLAB**  
Impact: Achieved a peak accuracy of 99% on the model for Hangman.

**Designing & Building Humanoid Robot (Bachelor's Thesis)**

(Aug '13- Mar '14)

- Built a humanoid robot with the following features – Locomotion on Wheels, Greeting of Humans, Hand Shake and Face Tracking – DC Motors (wheels) and Servo Motors (face) were controlled using Arduino, which required interaction with PC running Facial Recognition Classifiers. **Haar Cascade Classifiers (Open CV), Arduino Uno – Atmega 16 AVR**. [\[Report\]](#) [\[Videos\]](#)  
Impact: Achieved a 95% facial distinction while ensuring security of the lab.

**One Eyed Robot, Tech Fest Shruti**

(Jul '13 - Aug '13)

- Implemented facial recognition for passersby on a Webcam mounted on two servo motors tracking the face of human. Used **OpenCV** and **Arduino Uno** for controlled motion of webcam in the 3 degrees of freedom.