# SAATVIK TIKOO

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## EDUCATION

- **University of Southern California, Viterbi School of Engineering**  *Los Angeles*          *August 2019 – May 2021*
  *Master's in Computer Science*                                                                        *GPA: 3.73*
- **Jawaharlal Nehru Technological University, College of Engineering**  *Hyderabad*   *September 2013 – April 2017*
  *Bachelor of Technology in Computer Science & Engineering*                                  *Percentage: 82.87%*

## EXPERIENCE

**Amazon**  Software *Development Engineer Intern*                                              *May 2020 – August 2020*
- Added a One tap OTP Authentication system to an Android app. This feature makes the UI better by removing the hassle of manual search and typing of the OTP by the user.
- Built a debug system for root cause analysis of erroneous business rules triggered in an Amazon device, which decreased QA and Developer time spent per issue from 2 days to 300 milliseconds.

**USC-Information Science Institute**  *Student Worker*                                          *December 2019 – May 2020*
- Working on the Macroscopic models for Reproducibility and Replicability of Research Claims in the Social and Behavioral Sciences for developing a classifier that is impervious to manipulation.

**Oracle**  *Senior Applications Developer*                                                              *July 2017 – July 2019*
- Worked on Oracle HED product that is used all around US universities to maintain student academic information. Developed and owned the profile module that is now used by thousands of students.
- Worked on multiple features including performance enhancements, accessibility and automated testing suites.
- Developed a Jira alternate that is used by scrum masters to assign tasks to the team. The tool reduced the time spent on this task from 2 hours to 30 minutes.

**Pervacio Inc**  *Software Developer Intern*                                                        *January 2017- March 2017*
- Collaborated with a team of three, to build a system to automatically detect physical damages to a mobile device without any human interaction. This saved customers thousands of dollars as it eliminated any human involvement.

## PERSONAL PROJECTS

- **News Website and Mobile App**        *Website GitHub, Android App GitHub*                *February 2020*
  A News application to get real-time news. This website gives the latest news in all the domains like Politics, Sports, Technology, World Affairs etc. The application has various features like search with auto-suggest, comments section, bookmark favorites, trending news, share on social media. NY Times and The Guardian were the News sources.
- **Covid Population Tracking**  *CP19 GitHub*                                                              *October 2020*
  A crowd sources COVID tracking application that shows which areas are hot zones & which are safe to visit in the current pandemic. The app uses user's location and publicly available data to color code different regions as Red, Yellow and, Green. The location data is stored anonymously. Users can check all this information using ESRI Maps.
- **Game Agent, Halma**  *Game GitHub*                                                                    *November 2019*
  Developed an intelligent agent in Java that can play Halma board game. The game uses minimax algorithm with alpha beta pruning and good utility function to play against a human agent under time constraint. All the algorithms were built from scratch.

## SKILLS

- **Programming Languages:** Java, JavaScript, Kotlin, PHP, Python, SQL, TypeScript
- **Frameworks and Tools:** Android, AWS Lambda functions, AWS IAM, AWS API Gateway, AWS EC2, AWS Elastic BeanStack, ESRI Maps, Flask, GCP DataProc, Jenkins, NodeJS, React, React Native

## ACHIEVEMENTS

- **Innovation Challenge, USC Marshall School of business**                                      *October 2019*
  Won the innovation challenge held at USC, that focused on helping a startup, FareShare increase their business. We designed & prototyped a messaging system and incentivized the user by providing more features & better UI.