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: 3.6*
- **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*
  - Worked on Mobile Application Development in React Native with the focus on Android side development.
  - Developed a back-end Service API using AWS Lambda functions and API Gateway and CDK in Kotlin.
- **USC-ISI** *Student Worker*   *December 2019 – May 2020*
  - Working in Artificial Intelligence Division on the Macroscopic models for Reproducibility and Replicability of Research Claims in the Social and Behavioral Sciences for developing a classifier that is robust to gaming.
- **Oracle** *Senior Applications Developer*   *July 2017 – July 2019*
  - Worked on multiple ERP Cloud products for Fusion Financial Technology Team, which involved Web development in JavaScript using Oracle JET, Visual Builder Cloud Services and ADF.
  - Worked on multiple features including performance enhancements, internationalization, accessibility and automated testing suites. Responsibilities included designing to deployment of application with integration to a continuous build cycle.
- **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. OpenCV was used for image recognition & processing and Pylon suite to control cameras on hardware.

PERSONAL PROJECTS

- **News Website** *Web development, React, Azure Auto suggest Flask, EC2 AWS*   *February 2020*
  Developed a news application that was hosted on AWS- EC2. The rest APIs were built in flask and the front-end uses React. Added a search engine based on Azure auto suggest. The news was fetched from New York Times and Guardian. Added persistent comment box to news articles.
- **News Mobile Application** *Mobile Application development, Android, MP Android Charts, EC2 AWS*   *March 2020*
  Mobile version of the new website. Developed in pure Android. Used Chart libraries to check the popularity of a word based on news. Used refreshable view that refreshes a screen on pull down. Stored Bookmarked news articles locally. Added the feature of sharing on Twitter.
- **Game Agent, Halma** *Artificial Intelligence, Java*   *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, Jenkins, NodeJS, OpenCV, Oracle JET, REST, React, React Native
- **Machine Learning:** Keras with TensorFlow, NLTK in Python, scikit-learn (for using supervised learning algorithms)

ACHIEVEMENTS

- **Innovation Challenge, USC Marshall School of business**   *October 2019*
  Won the innovation challenge held at USC, that focused on helping a startup, FareShare, to make their product better with more features & market research.