Nikhil **Gowda**

(818)921-0859 | nikhilgowda@gmail.com | blankhue | gowdanikhil

Education

University of California, Riverside — *3.7 GPA*

M.S. Computer Science — *Expected May. 2020*

- General master's degree with an interest in Machine Learning/AI

University of California, Riverside — *3.6 GPA (Cum laude)*

B.A. Philosophy with Computer Science minor — *Sep. 2014 - Jun. 2018*

Skills

Languages: C++ / C# / Python / Java **Coursework**: Machine Learning, Adv. Data Mining, Adv. Algorithm Analysis, High-Performance Computing
Tools: Git / Android Studio / Linux / Unity / Xamarin Data Structures, Automata and Formal Lang., Compilers, Operating Systems, VR

Experience

Teaching Assistant in Computer Science — *Unversity of California, Riverside*

Lab-leading TA: CS013/CS008/CS005 — *Jan. 2019 - Present*

- Lead 3 separate 3-hour lab-sections guiding 70 CS students in learning C++ introducing topics on recursion, pointers, linked lists, ADTs, and libraries to build complex programs (CS013 Fall 2018)
- Assisting 140+ students in learning the fundamentals of learning HTML/CSS (CS008 Spring 2019)
- Lab instructor for app development using MIT's App Inventor 2 for non-cs majors (CS005 Spring 2019)

Tapdn — *El Segundo, CA*

Technology Intern — *Jul. 2018 - Oct. 2018*

- Created a zoom-in function for a functional IoT map directly used by building managers for large work environments in **C#**
- Directly worked with product manager on tasks supporting smart IoT environments at Tapdn, a Berkshire Hathaway company
- Researched and QA tested optimal hardware solutions for building smart IoT workplace environments
- Regularly tested 70+ APIs through Postman and created an automated API-testing environment currently used by Tapdn's development team
- Took part in start-up company duties such as core QA Mobile App testing, writing company manuals, and communicating regularly with remote developers

Automata and Formal Languages Reader — *Unversity of California, Riverside*

Reader/Grader — *Sep. 2018 - Dec. 2018*

- Built grading rubrics and graded 100+ computer science students taking CS150, a required upper division course
- Familiarized with formal languages, including regular and context-free languages and computational models for generating these languages
- Learned mathematical properties and equivalence between the models as well as Turing machines and decidability

Projects

Music Genre Classifier

Machine Learning Model Creator — *Sep. 2018 - Dec. 2018*

- Developed a live-music input genre classifier capable of 10-label classification using 3 classification techniques
- Collaboration achieved 70% accuracy with Convolutional Neural Network technique
- Wrote Decision Tree algorithm in **Python** from scratch using Gini index for node splitting achieving 10% improvement over small data set

ChuckleAI

Creator — *PRESENT*

- Creating a humor producing program built through convolutional neural network
- Working on generation of syntactically/semantically sound sentence construction through NLP techniques
- Converting to standalone android-based application

WiseLyfe

Creator — *PRESENT*

- Creating a cross-platform app on Xamarin that incentives good behavior coded in C#
- Application set to include server and proper API implementation