

# Tanish Arora

(951) 850-2020 • Riverside, CA, USA • [arora.tanish97@gmail.com](mailto:arora.tanish97@gmail.com) • [tanisharora97.github.io](https://tanisharora97.github.io) • [www.linkedin.com/in/tanish-arora](https://www.linkedin.com/in/tanish-arora)

## EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Bachelor of Science Degree, **Computer Engineering**

Overall GPA: 3.35/4.0

Riverside, CA

Expected Graduation : August 2019

## SOFTWARE & TECHNICAL SKILLS

C/C#	C++ (1+ years)	Java (1+years)
HTML /CSS (1+ years )	MySQL(Database Development)	Python (Machine Learning)
VHDL/Verilog (FPGAs)	Assembly (MIPS Processor)	GNU/Linux Shell
Circuit Analysis	MATLAB & Xilinx	Fluent in English, Hindi, and Punjabi

## Technical Experience / Projects

### Yahtzee - C++

- ❖ Used Data structures such as AVL and Binary Search Trees (BST) to let the user know expected outputs for every move
- ❖ Implemented randomized functions for dices

### rShell - C++

- ❖ Custom implementation of Linux shell in C++, Analyze and test commands and connectors to determine if the next command will execute based on first command.
- ❖ Implementation of system calls, piping and forking.

### Airline Booking System - Java & MySQL (Personal Project)

- ❖ Created a Airline Booking Software, where a user can login, book a flight, check and confirm their reservation details, cancel their booking and other multiple functionalities.
- ❖ Front end (GUI) made using Java, Used MySQL as a Database Server and Implemented integration of MySQL and GUI, for logging in, checking flight status, etc.

### Ray Tracer - C++

- ❖ Rendering of 3D objects in a 2D environment using OpenGL.
- ❖ Implemented reflection, refraction and Phong shading models.

### VR Runner - C# (Unity)

- ❖ Immersive Oculus VR game inspired from Games like Subway Surfers, Temple Run, where the user has to dodge several objects coming your way.
- ❖ Uses unity physics implementation and other functionalities to prevent any user vection.

## Employment

### Transfer Transition Program Peer Mentor

September 2018- Present

*Bourns College of Engineering, UC Riverside*

- Mentoring for an Exclusive year - long program designed to support incoming transfer students to successfully transfer from a community college to UC Riverside.
- Administer exclusive workshop seminars in order to provide them with academic resources, mock job interviews, and one on one conversation with their mentor for emotional or courses support.

### Supplemental Instructor

March 2016- June 2017

*Riverside Community College, Riverside*

- Developed weekly peer-assisted study sessions for mathematics students in order to improve student retention and success within targeted historically difficult courses .

### Tutor (Maths and Physics)

January 2016- January 2017

*Riverside Community College, Riverside*

- Effectively communicate concepts from pre-algebra to calculus. Coached students in various fields and helped them with their programming projects.

## AFFILIATIONS

**Institute of Electrical & Electronics Engineers (IEEE)** – General Member

**Association for Computing Machinery (ACM)** – General Member

**CyberSecurity (Cyber @ UCR)** – General Member

## AWARDS & CERTIFICATIONS

