

Tanish Arora

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Education

- **Computer Engineering**
University Of California, Riverside
Relevant Coursework: Software Construction, Intermediate Data Structures and Algorithms, Computer Graphics and Virtual Reality.
GPA : 3.35 Anticipated Graduation: August 2019

Projects

- **Yahtzee – C++**
 - Used Data structures such as AVL and Binary search trees to let the user know expected outputs for every move.
 - Implemented Randomized functions for dices
- **rShell – C++**
 - Analyze and test commands and connectors to determine if the next command will execute based on first command
 - Implemented system calls, piping and forking
- **Airline booking system – Java-MySQL**
 - Created front end GUI using Java
 - Implemented integration of MySQL database and GUI, for logging in, checking flight status and multiple other functionalities.
- **Ray Tracer – C++**
 - Rendering of 3D objects in a 2D environment using OpenGL
 - Implemented reflection, refraction and Phong shading
- **VR Runner – C#/Unity**
 - Provides an immersive Oculus VR experience
 - Uses unity physics concepts to shoot different objects/obstacles
 - Continuous path moving backwards to avoid vection

Employment

- 09/2018 – present ● **Transfer Transition Program Peer Mentor**
Bourns College of Engineering, 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
- 03/2016 – 06/2017 ● **Supplemental Instructor**
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.
- 01/2016 – 01/2017 ● **Tutor**
Riverside Community College , Riverside
 - Effectively communicate concepts from pre-algebra to calculus.
 - Coached students outside of working hours, to help them with their programming projects.

Technical Skills

Programming Languages

Java	<div><div></div><div></div><div></div><div></div><div></div></div>
C/C#/C++	<div><div></div><div></div><div></div><div></div><div></div></div>
MySQL	<div><div></div><div></div><div></div><div></div><div></div></div>
HTML/CSS	<div><div></div><div></div><div></div><div></div><div></div></div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div>

Software

Matlab	<div><div></div><div></div><div></div><div></div><div></div></div>
Xilinx	<div><div></div><div></div><div></div><div></div><div></div></div>

Languages

English	<div><div></div><div></div><div></div><div></div><div></div></div>
Hindi	<div><div></div><div></div><div></div><div></div><div></div></div>
Punjabi	<div><div></div><div></div><div></div><div></div><div></div></div>
Spanish	<div><div></div><div></div><div></div><div></div><div></div></div>

Hobbies



Exploring distant
lands



Program-ming



Capturing moments



Feeling the music



Soccer