**Tanish Arora**



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# EDUCATION



UNIVERSITY OF CALIFORNIA, RIVERSIDE Riverside, CA

Bachelor of Science Degree, **Computer Engineering** Expected Graduation : August 2019

Overall GPA: 3.35/4.0

# 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 |
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# 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

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**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



UCR Achievement Scholarship Recipient 2017-2019 HTML, CSS and Javascript (Coursera)