

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

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

UCR Achievement Scholarship Recipient 2017-2019

HTML, CSS and Javascript (Coursera)