Tawsif **Azad**

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Education

University of Texas at Austin

B.S. in Electrical and Computer Engineering   *Aug. 2015 - May 2019*

- GPA: 3.93
- Focus in Computer Architecture and Software Engineering

Experience

KVRX 91.7 FM Radio Station

Web Developer   *July 2017 - PRESENT*

- Developed backend using Django to facilitate DJ interaction with database
- Designed models with new functionality while staying backwards-compatible with existing database
- Implemented mockup front-end design using Bootstrap for mobile-friendly viewing

Undergraduate Research, Computational Design Lab (Dr. Cem Tutum)

Researcher for <Automatic Error Detection in 3D Printing>   *June 2017 - PRESENT*

- Wrote scripts to generate 2D projections of 3D model after each layer is printed to collect ideal image dataset
- Implemented timelapse photography of 3D printed object using Raspberry Pi to collect actual image dataset
- Designed 3D models prone to warping in order to study possible errors

TA for Software Design & Implementation I

Teaching Assistant   *August 2017 - PRESENT*

- Held weekly office hours to help students understand class material
- Taught C and C++ in discussion sections to supplement lectures
- Graded student projects and provided feedback on correctness and coding style to promote improvement over time

Projects

Viveolin

EARTHACK 2017   *Apr. 2017*

- Created idea to implement musical instrument as a VR game for HTC Vive
- Implemented modulation of pitch and volume in relation to position of controllers to allow wide range of musical expression
- Designed 3D environment in Unity to show note locations to user in order to allow precise intonation

Pong Clone

Personal Project   *Mar. 2017*

- Rendered graphics using Simple Fast Multimedia Library for smooth animation
- Implemented state machine in C++ to efficiently transfer data between game screens
- Designed algorithm for AI paddle movement to allow challenging and addictive gameplay

Skills

Programming   Java, C, C++, Python
Web   Django, jQuery, Bootstrap
Tools   Vim, Git, Linux

Relevant Coursework

COMPLETED

E E 460N, Computer Architecture
E E 360C, Algorithms

ONGOING

E E 461S, Operating Systems