




Faiz Ansari

faizansari224@gmail.com • +1 (469) 441-6986 • <https://faizansari.com> •  •  • 

EDUCATION

University of Southern California • Master of Science in Computer Science - AI exp. May 2023

California State University, Northridge • Bachelor of Science in Computer Science, Cum Laude May 2018

EXPERIENCE

Software Engineer • Freelance at **Pixerati** Aug. 2020 – May 2021

Implemented C++ plugins for Maya to extract and export 3D geometry to Unreal Engine.
Ran unit and integration tests of the real-time data extraction of 3D components and their VR output in Unreal.

Information Technology Specialist • Full-time at **Bento Box Entertainment** Jan. 2019 – May 2021

Provided immediate technology solutions and support to production personnel.
Tested Unix shell scripts for server-side software installation, Munki package distribution, and Active Directory.

PROJECTS

Atari Breakout Q-Learning • Artificial Intelligence, Reinforcement Learning June 2019

Optimized an agent's training parameters to play OpenAI Gym's 'Atari Breakout' over TensorFlow.
Game-winning reward values achieved under 30 training episodes. Logged in a Jupyter notebook.

NavMesh Pathfinding • Game Artificial Intelligence, Pathfinding August 2018

Implemented A* pathfinding in dynamic environments using Unity's NavMesh components.

Universal Finance Manager • Software Engineering Sept. 2017 – May 2018

Android application that provides tracking and budgeting of personal finance. Developed in an Agile/Scrum cycle. Utilizes a local Room database and Dagger dependency injection.

TensorFlow Image Classifier • Artificial Intelligence, Machine Learning April 2018

Re-trained Google Codelab's neural network to classify images of rabbit species as well as differentiate them from an 'unknown' objects class up to an accuracy of 99%.

MEVN Real-Time Chat • Web Development February 2018

Instant messaging web application that operates between separate browser instances.
Single-page design leveraging MongoDB, Express.js, Vue.js, Node.js, and Socket.io.

Tsarbucks • Web Development October 2017

A fictional coffee shop's web app that lets customers/employees enter/fulfill orders. Back-end programmed in PHP and hosted on a local MySQL database via a phpMyAdmin instance.

Accountabillibuddy • Software Engineering Feb. – May 2017

Java desktop application that predicts the profitability of stock market investments. Utilizes the Yahoo! Finance API and a PostgreSQL database hosted on AWS' Relational Database Service.

SKILLS

Computer: *Primary:* C++, Python, HTML, CSS, JavaScript ES6, jQuery, MySQL, TensorFlow, Unity, Git
Secondary: Java, PHP, Node.js, Socket.io, Android SDK, Maya, MIPS Assembly, Verilog HDL

Natural Languages: English, Urdu

EXTRACURRICULAR

Volunteer at **TreePeople** • 20 hours • Paramount Ranch, Agoura Hills, CA December 2020

Planted Walnut and Willow tree saplings and weeded harmful grass in an environmental conservation effort to prevent the overabundance of wildfires.

Event Organizer at the **Los Angeles International Music & Arts Academy** August 2019

Facilitated the organization of a digital animation class and workshop for school-aged children.

Volunteer at **UNESCO World Heritage Centre** • 24 hours • Karachi, Pakistan September 2014

Handcrafted goods and helpful items to empower victims of the 2014 Pakistan floods.