Faiz Ansari





EXPERIENCE -

Software Engineer > Filmtools > Burbank, CA

2022 - 2024

- Spearheaded development of a proprietary SaaS for low-latency access to high-performance GPU rendering in the cloud;
 routed via RESTful API over Node.js stack to backend for network-wide identity and VM state management, fulfilling access
 reliably and securely at the scale of hundreds of concurrent users.
- Implemented infrastructure for TURN-protocol optimized WebRTC live streaming and adaptive bitrate allocation, delivering hi-res browser-based remote post-production editorial services.
- Led a workflow optimization effort by the deliverance of an automated vendor price-sheet parser driven by OpenAI's GPT-4 API, expediting data processing to a Flask-based interface for review and scheduling for submission to the NetsSuite database.

Platform Engineer > Sidney Harman Academy > Los Angeles, CA

2021 - 2022

- Streamlined deployment of the Lab's VR/XR collaboratories by establishing a GitHub Actions driven CI/CD pipeline and a
 multi-scene layered Agile development workflow in the Unity engine.
- Extended content delivery and interactivity of USC's Scalar publishing platform via JavaScript API to meet the requirements of
 individual articles of authored scholarship.
- Held office hours to provide consultation for custom feature integration to researchers publishing with Scalar.

Maya C++ Developer > Pixerati > Chino Hills, CA

2021

- Developed an Autodesk Maya SDK utility plugin to facilitate real-time procedural regeneration of mesh objects as a component to a proprietary compositing pipeline.
- Optimally serialized mesh vertices, UVs, and textures into USD for low-latency export and scene generation in Unreal Engine.

Pipeline Support Specialist > Bento Box Entertainment > Burbank, CA

2019 - 2021

- Scaled and troubleshooted distributed rendering queues and server architecture of productions in parallel including:
 Bob's Burgers (Fox), The Bob's Burgers Movie (Disney), Central Park (Apple), and The Prince (HBO)
- Provided technical support and guidance for Toon Boom Harmony, Storyboard Pro, ShotGrid, and the Adobe Creative Suite.
- Expediently transitioned the enterprise network to a secure, VPN-based remote workflow in the advent of COVID-19.

EDUCATION -

Master of Science > Artificial Intelligence > University of Southern California

2021 - Hold

• Paused at 16/32 units. Took leave to pursue work prospects.

Bachelor of Science > Computer Science > California State University Northridge

2018

PROJECTS -

3D Mesh CNN Classifier > Deep Learning + MLOps

2025

- Implemented pipeline to preprocess 3D models as graphs for classification by GCN trained on the ModelNet40 dataset.
- Deployed training and inference models as serverless IaC via Terraform on GCP, routed by FastAPI and tracked by MLFlow.

Q-Learning Atari Breakout > Reinforcement Learning

2022

- Optimized a Markov Decision Process agent for training in TensorFlow to play and solve OpenAl Gym's Atari Breakout.
- Achieved game-winning reward values within 28 training episodes, logging iterations in Jupyter Notebook.

SKILLS -

Programming > C++, Python, JavaScript

Machine Learning > Pytorch, MLFlow, OpenCV

DCC > Maya, Unreal Engine, USD, Open3D, WebGL

Full Stack > Node.js, Express.js, Socket.io, Flask, SQL, Redis

DevOps > GitHub Actions, Terraform, Nginx, AWS EC2, Lambda

Virtualization > Docker, Kubernetes, KVM, Proxmox, libvirt