Rishi Pandey

Portfolio: http://rishi-pandey.com | (630) 881-4213 | rishipandey125@gmail.com

EDUCATION

University of Illinois Urbana Champaign | Champaign, IL

May 2021

Bachelor of Science, Major: Industrial Engineering, Minor: Computer Science

GPA: 3.24

Universidad Pontificia Comillas | Madrid, Spain

Jan 2019 - May 2019

Engineering Semester Abroad

SKILLS

Technical: C++, Python, Unreal Engine, OpenGL, GLSL, HLSL, Shotgun, PyQt/PySide, OpenCV, Unity, ARKit, Flask Language: Spanish, Hindi

EXPERIENCE

i-Jet Lab (Brunswick Corporation) | Champaign, IL

May 2020 - Present

VR/AR Engineering Intern

- Created a custom pipeline for importing Rhino CAD designs into Unreal Engine by extending Datasmith using Python
- Engineered demo virtual reality visualization tool for Brunswick's boating products built in Unreal Engine and C++
- Integrated and scripted custom HLSL shaders for visualization tools and to develop a unique cinematic style for VR

Zero VFX | Chicago, IL

May 2019 - Sept 2019

Pipeline Technology Intern

- Developed tools to assist in feature film pipeline integration, specifically between Shotgun and Photoshop
- Experimented in Unreal to learn how real-time rendering impacts virtual production filmmaking and visual effects
- Assisted in managing matte-painting artist requests for visual effects software using Python and pipeline toolkits

Fiserv | Chicago, IL

May 2019 - Aug 2019

IT Architecture Intern

- Built full-stack status system for data reporting automation by utilizing Python and SQL database technologies
- Helped set up big data architecture for elegant solutions to financial data management using cutting edge techniques
- Collaborated with the data engineering team to incorporate efficient real-time analysis

NetMath | Champaign, IL

Jan 2018 - Nov 2018

3D Math Mentor

- Mentored students studying university-level multivariable calculus using Mathematica and Matlab tools
- Automated processes for efficient grading on a 3D Math e-learning platform using Python web frameworks
- Encouraged student collaboration and created a positive learning environment for a diverse student body

CS 125 | Champaign, IL

Aug 2018 - Dec 2018

Java Course Assistant

- Created Android applications to teach students how to create user interfaces and develop code for mobile platforms
- Guided computer science students in learning to construct efficient algorithms in Java
- Supervised office hours in order to prioritize students that required individualized attention

ACTIVITIES

Personal Projects | Champaign, IL

Jan 2018 - Present

- Designed environments, lighting, and custom tools for a virtual production animated short film in Unreal Engine
- Leveraged computer vision to create a pose-estimation algorithm to help find a mobile solution to motion capture
- Developed a ray tracer in C++ implementing multiple materials and a basic cinematography system

Siggraph | Champaign, IL

Aug 2020 - Aug 2020