

Kanishka Samrat Kolakaluri

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Education

University of Dayton

Dayton, OH

MASTERS IN COMPUTER SCIENCE

Aug 2021 – May 2023

- Graduate Teaching Assistant for Two Courses consisting of Deep Learning and Augmented Reality under Dr. Van Tam Nguyen with 300+ students for two semesters.
- Developed several Computer vision and Machine Learning projects for Professors and Students during the coursework.

Jawaharlal Nehru Technological University

Hyderabad, India

BACHELORS OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATIONS ENGINEERING

Sep 2013 – Dec 2017

- Built cost effective University Radio during the study time, till today it is being utilized by the university.
- University Soccer Team Captain (2014-2017), managed to be champions for 2 consecutive years.

Experience

First Show Digital Pvt. Ltd.

Hyderabad, India

FULL STACK DEVELOPER

Aug 2019 – Aug 2021

- Successfully managed the team's transition to remote work, optimizing workflows and utilizing technology to maintain productivity and project momentum.
- Utilized modern front-end frameworks (e.g., React) and back-end technologies (e.g., Node.js) to develop scalable, responsive, and user-friendly web applications.
- Mentored junior developers, providing guidance, code reviews, and technical support to foster their professional growth and enhance their skill set.

Nevexa Digital Pvt. Ltd.

Hyderabad, India

BACK END DEVELOPER

Jan 2019 – Jul 2019

- Collaborated closely with cross-functional teams, including front-end developers and product managers, to define API requirements, specifications, and integrations.
- Implemented automated testing and continuous integration processes, reducing testing time by 50% and improving overall code stability.
- Developed and maintained internal tools and dashboards for managing media assets, metadata, and production workflows.

Next Education Pvt. Ltd.

Hyderabad, India

JUNIOR SOFTWARE DEVELOPER(INTERNSHIP & FULL TIME)

Feb 2018 – Dec 2018

- Promoted from an internship to a Junior Software Developer role, contributing to the development of educational learning websites.
- Designed and implemented RESTful APIs, ensuring secure and efficient communication between websites and external systems.
- Supported the creation and maintenance of databases to store and manage educational content, user data, and progress tracking information.
- Collaborated with instructional designers and subject matter experts to implement educational features based on pedagogical requirements.

Skills

Programming Languages:	Python, C++, C#, Objective-C, Swift
Front-End Development:	HTML, CSS, JavaScript, React, Angular, Vue.js
Back-End Development:	Django, Express.js, Ruby on Rails, Node.js
Database and Server-Side:	Firebase, MondoDB, ORM, AWS, Azure, Docker, Kubernetes
Deep Learning:	TensorFlow, PyTorch, Neural Networks, GAN, CNN, RNN
Computer Vision:	Object Detection, Image Enhancement, MATLAB, Scikit-Image, OpenCV, Augmented & Virtual Reality
ML Tools:	NumPy, Matplotlib, Seaborn, Keras
Game Development:	Unity, Google VR, PyGame, Blender
Concepts:	Neural Networks, Small-scale Mobile Robots, Natural Language Processing, REST API's

Projects

Digital Twins in Photography Lighting(Technical Paper in Progress)

Dayton, OH

Application Designer, Developer

May 2023

- Developed state-of-the-art computer vision project in photography using digital twins. Built custom circuit with LED lights for advanced lighting simulations. Optimized lighting setups through computer vision algorithms, resulting in superior image quality.(Tools: C#, Python, Firebase, Embedded Systems, Blender, Unity)
- ("Application of Digital Twins into Photography Lighting" (2023). Stander Symposium Projects. 2943.
https://ecommons.udayton.edu/stander_posters/2943)

Paris City Virtual Reality Tour (IOS app).

Dayton, OH

Application Designer, Developer

Dec 2022

- Built iOS app for virtual city tours with interactive maps, 360-degree views, and audio guides. Enabled users to explore landmarks and attractions with real-time GPS navigation. (Tools : C#, Unity, Blender, Xbox game controller)

Video Streaming Platform (Website).

Hyderabad, India

UI/UX Designer, Developer, Tester

Dec 2021

- Developed video streaming platform with user authentication, content management, and playback and maintain security using JWT.
- Designed a seamless React.js interface.
- Built Node.js API for media handling, Integrated AWS S3 for secure storage,Conducted thorough testing. Used React.js, Node.js, AWS S3, RESTful API, JWT, HTML, CSS.

Digital Twins in Photography Lighting(Academic Project)

Hyderabad, India

Circuit Designer, Embedded Coder

Aug 2021

- Designed and assembled a circuit board with microcontrollers for seamless communication between the robot and user gestures.