Akhil Swarop

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Proactive Computer Science and Engineering student at Amrita Vishwa Vidyapeetham specializing in computer vision and image processing, with a foundation in software development principles. Coursework includes digital image processing and explores emerging technologies like augmented/virtual reality. Actively seeking internships to gain practical experience applying academic knowledge and developing intuitive solutions.

WORK EXPERIENCE

Amrita Vishwa Vidyapeetham • Coimbatore, Tamil Nadu, India • 10/2021 - Present
Student

CERTIFICATIONS

AR games using Vuforia SDK • 03/2024 - 04/2024
Coursera
Disaster Risk Monitoring Using Satellite Imagery • 10/2023 - 11/2023
NVIDIA
Responsive Web Design • 10/2022 - 11/2022
freeCodeCamp

PROJECTS

Lab Booking System • 02/2024 - 04/2024
Amrita Vishwa Vidyapeetham
MERN stack development (MongoDB, Express.js, React, Node.js)
Built laboratory booking system with:
- Type, date, and time slot selection
- Real-time seat blocking for efficient resource management

Designed and developed system architecture for:
- Dynamic seat availability management (prevents overbooking)
- Secure data storage with JSON in MongoDB
- RESTful API communication with Express.js
- Server-side logic and client synchronization with Node.js backend
- Ensured data integrity and consistency across concurrent users

AR Anatomy • 03/2024 - 04/2024
Amrita Vishwa Vidyapeetham
- Developed an interactive augmented reality anatomy application using Vuforia SDK.
- Implemented marker-based detection for accurate model overlay on real-world objects.
- Designed user interaction to explode models, revealing labeled subcomponents.
- Demonstrates strong understanding of AR principles, 3D modeling, and user interface design.

SKILLS

Algorithms, Cascading Style Sheets (CSS), ChatGPT, Dart, Data Wrangling, Deep Learning, Embedded Systems, Flutter, Git, Github, HTML, HTML5, JavaScript, Keras, Machine Learning, MongoDB, MySQL, PostgreSQL, PyTorch, React.js, TensorFlow, Unity, Vuforia Augmented Reality SDK

EDUCATION

Bachelor of Technology - BTech in Computer Science and Engineering
Amrita Vishwa Vidyapeetham
GPA: 7.69
09/2021 - 09/2025

Class 12
KCS CBSE
GPA: 95.2 %

Class 10
KCS CBSE
GPA: 93.2 %