# Kavindu Harshamal Perera

## Personal details

👤 Kavindu Harshamal Perera

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📅 December 4, 2001

🌐 kavinduharshamal.github. io/mycv

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## Skills

Game Development

React,Node,ThreejS

 AR Development

Java programming

Python programming

CSS, HTML, MySql, PHP

Arduino and PCB design

Matlab

Blender

Solidworks

Unity engine and C#

## Profile

I'm Kavindu Harshamal, a dedicated student at NSBM GREEN University with a multifaceted skill set. My specialization lies in web development, game development, and AR development. Currently, my main focus is on React and Node, making me a proficient full-stack developer. I bring expertise in HTML, CSS, Java, Python, C, C#, and Unity Engine, with a solid foundation in iOS development. Additionally, my skills extend to VR and AI. I have hands-on experience in Figma design and PCB design, enhancing my ability to deliver high-quality work in various domains. With a passion for innovation and continuous learning, I am well-equipped to contribute to projects in web development, game development, AR, and beyond

## Education

**BSc Engineering Honours in Computer System Engineering**  **Jul 2021 - Present**
NSBM, Homagama
Undergraduate student

**Advanced Level**  **Jan 2018 - Dec 2020**
Mahanama college, Colombo
Combined Maths (A) Chemistry (C) Physics (C)

**Ordinary Level**  **Jan 2009 - Dec 2020**
Makandana model school, Kesbewa
• 8 A, B  including Mathematics (A)  Science(A)

## Courses

**Web development**
Udemy courses

**Game development**
Udemy course

**IOS development**
Udemy course

**3D Modelling**
Udemy course

## Projects

**AR application for OREL corporation(IOS and Android)**
Developed an AR-based solution for OREL Corporation, allowing them to showcase all of their products in an immersive AR space. By using this innovative technology, customers can explore and interact with OREL's products in an engaging and interactive way, providing a truly unique shopping experience.

**Multiplay game**
Experience an epic multiplayer battle with up to 20 players on the same map, developed using Unity Engine and PUN Network. Enjoy an immersive gaming experience with smooth and reliable network connections, enhanced by the powerful Unity Engine.

## Languages

English

Sinhala

## Qualities

■ Workload Manage

■ Fast Learning

■ Leadership qualities

## Hobbies

■ Reading Books

■ Explore new technology

■ Traveling

**AI Teaching Assistance**

I have successfully developed an innovative AI platform for teaching assistance as part of my project. Leveraging cutting-edge technologies, the platform is built using React.js for the front end, Three.js for immersive 3D models, and Node.js with Express.js for the backend. This comprehensive solution seamlessly handles 3D models, backend processes, and efficient file handling. The integration of these technologies showcases my proficiency in creating sophisticated and interactive educational tools, demonstrating my commitment to staying at the forefront of technology in the field of AI and education.

**Place a object in plane(AR)**

Our AR base solution allows you to place a 3D model in your environment and move it around just like IKEA application. With the power of Augmented Reality, we can instantly see how the object would look in your space and make changes to the location in real time. Plus, our solution is easy to use and requires no special hardware or software.

**Other project**

I work with cvzone library for computer vision to identify the location of fingers and replace them with a mechanical hand, such as the Shadow Arm. This technology allows for accurate tracking of finger movements and provides precise control over the mechanical arm.

**Security system**

Designed and developed an innovative home security system that provides you with peace of mind when you are not at home. With our system, you will be instantly alerted through Wi-Fi when someone enters your home. You will have the reassurance that you will know the moment someone is inside your home. Our home security system is designed to provide you with the latest in home security technology.

**VR Application**

I developed a VR application for OREL Corporation to showcase all of their products and enable interactive experiences within the virtual world. Users can explore the virtual environment, interact with the products, and gain a realistic understanding of their features and functionalities. The VR application provides an immersive and engaging platform for OREL Corporation to effectively present their product range to customers.

**AI Application**

I developed the AI project using Python and Qt Designer for OREL Corporation to recognize images and generate corresponding outputs.

## References

**Dr.Chandana Perera**
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**Mr. Prabhath Buddhika**
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