

AMIRA DEURASEH

Creative Frontend Engineer

5+ years of experience in web development, programming education and creative media. Specializes in WebGL, 3D, and shaders, blending artistic vision with engineering precision to craft immersive web experiences.

PROJECTS

Mistwood Cottage

<https://mistwood-cottage.vercel.app>

A cozy, interactive 3D experience built with Blender, Three.js and GLSL.

- Baked textures stimulating a dynamic day-night cycles environment.
- Implemented Rapier physics and real-time controls for smooth exploration.
- Shared in creative coding communities with 300+ visits; received positive feedback for atmosphere, detail and polish.
- Optimized scene to sustain 60fps performance on mid-range devices.

PROFESSIONAL EXPERIENCE

Programming Tutor

SELF-EMPLOYED | REMOTE | 2019 - PRESENT

- Mentored 20+ students across CS topics including programming, algorithms, data structures, design patterns and frontend development with React, helping them progress from theory to building functional applications.
- Helped students grasp complex programming concepts, leading to a measurable improvement in performance and confidence.
- Adapted lessons to students' needs, incorporating hands-on projects and real-world applications.

Design Engineer

SONY EMCS MALAYSIA | BANGI | 2019 - 2021

- Developed internal test automation tools for Sony TV picture quality evaluation, significantly reducing manual testing effort and increasing accuracy.
- Lead developer in the integration of Alexa assistant for Sony Smart TVs, enhancing global user experience with seamless voice control.

Developer Intern

SONY EMCS MALAYSIA | BANGI | 2018

- Prototyped an IoT interface linking Alexa to smart TV features using AWS, Raspberry Pi, and infrared modules.
- Presented a working demo that influenced roadmap priorities for Sony's smart integration R&D.

Web Developer

SME CORPORATION MALAYSIA | SERDANG | 2017-2018

- Designed and developed a data-driven web platform for the SME Input-Output Table, streamlining economic data analysis.
- Translated complex business requirements into an interactive and intuitive user interface.
- Implemented real-time data simulations and visualizations, enhancing accessibility for stakeholders.

SKILLS

Frontend	Javascript, Typescript, React, Vue, Next.js, Node.js, Vite, Git, Vercel
WebGL	Three.js, React Three Fiber (r3f), GLSL, Cannon.js, Rapier3D
Animation	CSS, SCSS/Sass, Styled-component, Matter.js, P5.js, Gsap, Framer Motion
Design	Blender, Figma, Illustrator, Photoshop
Others	C/C++, Python, Java, Kotlin, Android Studio

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CERTIFICATIONS

Three.js Journey by Bruno Simon. 2023

The Joy of React by Josh W Comeau. 2024

CSS for Javascript Developer by Josh W Comeau. 2023

AWARDS

Zoohackathon KL by United States Embassy 2018

Champion. Developed Wildcam, a Tensorflow-based application for identifying wildlife from live camera streams.

Motorola MotoInnoCup Competition 2016

Champion. Developed Fully Automated Controller for External Defibrillator (FACED) prototype to detect Ventricular Fibrillation (VF) in cardiac arrest situation and establish appropriate shock levels.

EDUCATION

Universiti Putra Malaysia (UPM), Serdang, Malaysia
Bachelor of Computer & Communication Systems Engineering

LANGUAGES

English Fluent
Malay Native
Korean Intermediate.
TOPIK Level 3
Japanese Elementary
Thai Elementary
Turkish Elementary