

AMIRA DEURASEH

A frontend engineer with over 5 years of diverse experience in web development, programming education and creative media. Experienced in crafting immersive web experiences with WebGL, 3D and shaders, merging technology with storytelling. Passionate about pushing the creative boundaries through animation and interactivity.

PROFESSIONAL EXPERIENCE

Programming Tutor *Self-employed*

2019 - PRESENT

- Provided personalized 1-on-1 tutoring in computer science, covering algorithms, data structures, Android development, and design patterns.
- 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*

2019 - 2021

- Developed and automated internal software tools for picture quality testing, reducing manual testing time and increasing efficiency.
- Led the Amazon Alexa integration in Sony TVs, improving voice assistant functionalities and elevating user experience.

Developer Intern *Sony EMCS Malaysia*

2018

- Prototyped and developed a proof-of-concept system that enabled Alexa voice commands to control smart TV functions.
- Built the system using Raspberry Pi, infrared sensors, Amazon Web Services (AWS), and Alexa Skill Kit (ASK).

Web Developer *SME Corporation Malaysia*

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	React, Vue, Next.js, Node.js, Vite, Git, Vercel
3D & Design	WebGL, Three.js, React Three Fiber (r3f), GLSL, Cannon.js, Rapier, Blender, Figma, Illustrator, Photoshop
Animation	CSS, SCSS/Sass, Styled-component, Matter.js, P5.js, Gsap, Framer Motion
Others	C/C++, Python, Java, Kotlin, Android Studio

PROJECTS

<u>Stylized Cottage</u>	A 3D cottage environment built with Blender & Three.js, featuring stylized lighting and baked textures.
<u>Grid Floor</u>	A customizable GLSL shader for an animated, high-performance grid effect in Three.js.
<u>Sticker Mart</u>	A React-based e-commerce concept, showcasing a product catalog with smooth animations using Framer Motion.

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 MotolInnoCup 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
Thai Elementary
Japanese Elementary
Turkish Elementary