Shane Cunningham |
Web Developer, Interaction Designer

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Profile:

- Experience in working with MERN stack (Mongo db, Express, React, Node.js).
- Recent graduate of a Higher Diploma in Science in Web Technologies (National College of Ireland), studying Server-side technologies, Ruby on Rails, Node.js, JSON, express.js, MySQL and Front-end Development, Multimedia.
- 2.1 MA Interactive Media graduate with experience in IxD, UX, HTML, JavaScript, CSS, C#, Java, Adobe CC.
- Creative and self-motivated with knowledge in user experience design skills and user centered methodologies. Work was longlisted for the 2016 RDS Visual Art Awards when attending the Limerick School of Art and Design.
- Strong problem-solving skills, easily adaptable, hardworking and passionate about technology.

Education:

2019 – 2020   **National College of Ireland | Higher Diploma in Science in Web Technologies**
Second Class Honours (2.1)

Modules:	Result	Course Credits
Digital Multimedia (Video, Image editing, Animation, Audio)	75.1	10
Server-Side Web Technologies (Ruby-on-Rails, e-commerce application)	73.6	10
Web Application Development (Node.js, express, ejs, JSON, XML)	71	10
Object Oriented Software Engineering (OO design and planning)	63.2	5
Computer Architecture, OS, Networks (Theory)	40	5
Web Design (Static Websites, JavaScript, CSS, HTML, jQuery)	69	5
Introduction to Databases (mySQL)	56	5
Final Project (Node.js, express, ejs, MySQL, paypal sandbox, e-commerce)	75	50

2016 - 2018   **University of Limerick | Master of Arts in Interactive Media**
Second Class Honours (2.1)

Modules:
Foundations of Interactive Media Design: Grade B1
- Wireframes, Low fidelity prototyping, Collaborative design practices, User research methods, group project.

I-Media Project/Workshop, 2 semesters: Grades B2, B1
- Photography, Graphics (Adobe CC), Sound production, Video production (Adobe premiere), Web design (HTML5, CSS, JavaScript), Pure Data/GEM, Processing(Java), Google Sketchup, 3d printing with Ultimaker, OpenSCAD.

Physical Computing: Grade B1
- Arduino, Electronic prototyping, Sensors, C#, Interactive art and design methodology.

Creative Coding, Programming for Musical Systems: Grade B1
- Processing(Java), Max/msp, Ableton live, data parsing with the Carnivore library.

Mobile Application Design : Grade A2
- Marvel, Invision, Adobe illustrator, Wireframes, User-flow, User testing, Paper prototyping.

Thesis: Crafting with Technology: Grade B2
- Developed a prototype that explored the interactive potential of electrical field sensing and how the technology can be embedded into everyday objects. The project involved programming an Arduino micro-controller (C#) to collect sensor data and communicate with software on a PC using the I2C handshaking protocol.

This project and more are available at   **shanesdesign.eu**

| 2012-2016 | **Limerick Institute of Technology | Bachelor of Arts - BA, (Honours) in Fine Art Sculpture and Combined Media** |
| | **First Class Honours (1.1)** |

| 2011-2012 | **Colaiste Chathail Naofa | Fetac Level 5 - Art Portfolio** |

| 2000-2004 | **Waterford Institute of Technology | Fetac Level 6 - Bricklayer, Stonemason** |

Technical Skills:

- **HTML, CSS, JavaScript:** Adequate Knowledge of these technologies having studied them over two-years.
- **Server-side Technologies:** Node.js, Mongo db, MySQL, Insomnia REST, Ruby-on-Rails.
- **C#:** This language was predominantly used for the duration of my master's degree course and gave good insight into adapting to similar language structures such as Java and JavaScript.
- **Adobe CC:** Using Premiere pro since 2014(Video editing). Used Photoshop and Illustrator primarily for making posters, logo design, editing photos and creating mock-up pages for mobile application prototypes.
- **User Experience Design:** This was the core methodology of my master's degree course and featured in every project.

Work Experience:

January 2020 – June 2020 | Ready Cert Work, Waterford | Back End Developer

- Remote working as part of a team using github
- Creating the back end for a MERN stack application (mongodb, express, react, node.js)
- Setting up a nosql database using Mongo db
- Setting up CRUD functionality on a node js api
- Creating json endpoints for the react front-end
- API endpoint testing using Insomnia
- Setting up user authentication (registration and login) and role-based authorization
- Deploying the application to a ubuntu server

August 2017 – January 2020 | John Cunningham, Waterford | Property Management/ Farming

- Property Management, Farm Hand, Laborer.
- Part time job while studying

September 2016 | Plinth II - Public Exhibition for Culture Night 2016 –
Sailors' Home, O'Curry Street, Limerick | Visual Artist

- Exhibited Installation Artwork related to technology that utilised basic electronic engineering to control motors, allowing visitors to interact with musical instruments by setting off laser trip wires.

May 2016 | LSAD Degree Show – Limerick School of Art and Design, Clare Street, Limerick | Visual Artist

- Exhibited Installation Artwork That used Arduino microcontrollers to control musical instruments at different intervals. This project required C# programming skills

March 2014 | Fuerza Bruta, Culture Factory, Castletroy,
Limerick | Visual Artist

- Live construction of a large sculptural Installation built from tyres which formed part of the Preliminary event for the internationally renowned stage show Fuerza Bruta.

December 2011 | Workhouse Studios, Kilmacthomas, Co. Waterford | Internship

- Activities included Product Design, Ceramics, teaching crafts workshops and engaging with the public.

August 2011 | Totem – Design Agency, Dungarvan, Co. Waterford | Internship
- Activities - Illustrations, Logo Design, Adobe CC, Graphic Design.

1999 – 2011 | Bricklayer, Ireland
- Worked on private construction projects primarily in the Waterford area.
- Managed projects
- Acquired the time management skills to meet deadlines
- Acquired teamwork skills
- Shared skills and helped to train others
- Provided customer service by interacting with clients

Interests & Achievements:

Art Projects:
- Longlisted for the 2016 RDS Visual Art Awards.
- Enjoys being creative, building projects using electronics and technology.
- WordPress: shanecunninghamblog.wordpress.com

Other Interests:
- Avid music enthusiast, enjoys concerts, festivals and currently learning to play the guitar.
- Watching Sport and T.V boxsets, Keeping up with current affairs.

References available upon request