Braden Marshall

SOFTWARE ENGINEER · FULL-STACK WEB ENGINEER

□ (+44) 7469 753230 | Spraden1996@hotmail.co.uk | 🌴 bradenmarshall.co.uk | 🖸 Braden1996 | 🛅 braden-marshall | 🖓 London

Summary _____

Full-stack engineer passionate about solving **meaningful problems** with speed by leveraging **open-source** technologies on top of a concrete foundation of **Computer Science** principles, made possible through a **pragmatic** mindset and **Lean** methodology.

Hobbies include: bodybuilding, entrepreneurship, and *NIX customisation.

Experience _____

Theodo

Theodo UK

London, England

Theodo FULL-STACK ENGINEER

Aug. 2017-PRESENT

- Built 10+ web and mobile applications for start-ups and global corporations alike.
- Vast spectrum of projects, ranging from e-commerce platforms and data visualisation dashboards to implementing machine learning algorithms and chatbots.
- Championing the bespoke Theodo *agile methodology* (based on Lean, Scrum and DevOps) to deliver revenue-generating MVPs.
- Worked with many development teams, giving me exposure to different technologies, methodologies and project scopes.

Theodo

Theodo FR

Paris, France

Theodo FULL-STACK ENGINEER

Oct. 2017 - Jan. 2018

- Lived and worked in Paris alongside another startup within the M33 ecosystem.
- Built a high-caliber session replay tool for one of the world's fastest growing digital experience platforms.



CARDIFF Cardiff University

Cardiff, Wales

CARDYD CUROP RESEARCH ENGINEER

Sep. 2014 - Jun. 2017

- Designed and developed an open-source implementation demonstrating the latest techniques emerging from Argumentation Theory

 a hot-topic field within Artificial Intelligence.
- Paper accepted for inclusion in the International Conference on Computational Models of Argument (COMMA) 2018.
- Project undertook single handedly under the supervision of two Computer Science professors.



Self-Employed

Horsham, England

VIDEO-GAME MOD DEVELOPER

Sep. 2013 - Sep. 2014

- Developed 11 "plug-and-play" addons, for the popular video-game Garry's Mod.
- Marketed and *sold over 1,000 units* to server administrators (exposing my addons to *100,000s of players*).
- Collaborated with clients to design and build bespoke addons for their own communities.
- Provided support to many clients, with varying levels of technical expertise.

Education _____



CARDIFF Cardiff University

Cardiff, Wales

B.Sc. IN COMPUTER SCIENCE

Sep. 2014 - Jun. 2017

- Achieved First-class with honours (~85% marks achieved).
- Final-year modules include: Artificial Intelligence, Graphics, High-Performance Computing & Multimedia.
- Dissertation: a modern browser-based multiplayer implementation of the arcade game Tron; complete with a sophisticated AI powering "computer" controlled opponents.



The College of Richard Collyer

Horsham, England

COLLYER'S GCE ADVANCED LEVELS (A-LEVELS)

Sep. 2012 - Jun. 2014

- Computing (A*)
- Information Technology BTEC Level 3 (**Distinction***, **Distinction***)
- · Mathematics (B)

Honors

2017

Achieved First-class with honours, graduated with

~85% marks achieved.

2014

Collyer's Academic Progress, nominated by Computing teacher for exceptional performance.

Side Projects _____

Icarus: A tiling windows manager, featuring gaps, created for MacOS. Implemented, following the *object-oriented* paradigm, using a *binary space partitioning tree* plus custom algorithms for efficient querying and layout computations. Can manage other GUIs, e.g. the DOM of a web-page. Full *unit-test* coverage helps to minimise regressions.

TWERK: An administrative addon for Garry's Mod featuring: a sophisticated GUI; user groups with permissions; powerful user commands; as well as rich plugin and theme systems.

Audio Synthesiser: GUI application built with MATLAB implementing several *audio-signal processing* algorithms (including *spectrogram editing, phase vocoder, ADSR volume shaping, wah-wah, flanger* etc). Effect pipeline allows for some powerful creations.

Skills & Courses_____

Programming

JavaScript, TypeScript, Python, Lua, Java,

MATLAB, SQL, C++.

Frontend

React, Redux, Styled Components, React Native,

D3.js, HTML5 & CSS3.

Backend

Node (w/ Express + Knex etc), Django. AWS, Docker, Circle CI, Linux, Firebase.

DevOps

Git, TDD (Jest + Cypress for Web), Algorithms &

Other

Data Structures.