Braden Marshall

SOFTWARE ENGINEER · FULL-STACK WEB ENGINEER

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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 UK

London, England

Theodo WEB AND MOBILE SOFTWARE ENGINEER

- Aug. 2017-PRESENT • Built and launched 10+ web and mobile apps (React, React Native,
- Redux, Node, AWS) using Agile methods (Lean, Scrum and DevOps), including work on e-commerce platforms, data visualisations, machine learning algorithms and chatbots.
- Lead and completed the first project migration to Typescript at Theodo. This experiment grew our team's velocity from 7.5 to 15 in 4 weeks. Delivered company-wide trainings on Typescript and the migration process that led to Theodo adopting Typescript for all new projects.
- · Contributed several features and fixes to our internal project generator, most notable of which was a React app hosted on AWS S3, CloudFront and Certificate Manager (via Terraform).
- Onboarded and trained, in both project tech-stack and methodology, ~10 junior and ~10 experienced developers.



Theodo France

Paris, France

Theodo WEB AND MOBILE SOFTWARE ENGINEER

Oct. 2017 - Jan. 2018

• Travelled and lived in Paris, within one of Theodo's sister startups, and built the session replay tool for Content Square, one of the world's fastest growing digital experience platforms.



Self-Employed

Horsham, England

VIDEO-GAME MOD DEVELOPER

Sep. 2013 - Jan. 2016

- 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.



Cardiff University

Cardiff, Wales

CUROP RESEARCH ENGINEER

Aug. 2015 - Sep. 2016

- · Co-authored a paper on Argumentation Theory (an AI field) as part of Cardiff Undergraduate Research Opportunities Programme (CUROP).
- Paper was accepted for inclusion in the International Conference on Computational Models of Argument (COMMA) 2018.
- For more, see: http://disco.cs.cf.ac.uk/ and http:// ebooks.iospress.nl/publication/50220

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_____

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.

TWERK: an administrative addon Garry's Mod, a popular video-game, 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

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, Loopback etc), Django.

DevOps

Other

AWS, Docker, Circle CI, Linux, Firebase.

Git, Test-Driven Development (w/ Jest, Cypress, ESLint etc), Algorithms & Data Structures.

SENT TO GitHub Repository BRADENMARSHALL.CO.UK APRIL 8, 2019