# Curriculum Vitae

Name: Timothy David Michael New

Website: www.positiveregardtech.com

# Personal Profile

I am a self-employed Full-Stack Developer seeking exciting opportunities to develop and grow as part of a company. I am currently working on a proof-of-concept for a survey application to capture real-time patient feedback, which is being developed using React, NodeJS, GraphQL and MariaDB.

I have been currently studying towards a BSc in Computing and IT with the Open University since 2018, and prior to this spent the better part of two years teaching myself skills in software engineering and web development. Part of this was facilitated by undertaking the well-received Harvard EDX Computer Science Qualification [CS50](https://www.edx.org/course/cs50s-introduction-to-computer-science).

I am self-motivated and a hard worker who enjoys both collaborating with a team and working to my own initiative. Over the years, I have worked in environments which have demanded compassion and the ability to act decisively. Working both in a busy Accident and Emergency Department and with the Mental Health Services with the NHS, I learned I have the ability to develop an empathetic rapport with people but can also act assertively when the situation demands it. In terms of net life skills, I have found working in both environments to be exceptionally rewarding in this regard.

Having had an interest in computers growing up, I decided to take up programming as a hobby in 2017, beginning by learning Python and honing my skills undertaking challenges using the subreddit /r/dailyprogrammer. Since then, I chose to develop my skills further taking the CS50 qualification, before deciding to make this my career by learning web development and studying towards a BSc in this field. My GitHub page hosts some of my earlier projects, including a booking calender which was developed using the MongoDB, Express, React and Node (MERN) stack.

**Areas of Knowledge**

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| **Language/Skill** | **Experience/Knowledge** |
| HTML/CSS | I am proficient with HTML5 and CSS3, having developed websites using this alone. I have used SASS as my CSS preprocessor in previous projects, although have recently shifted towards using the library [styled-components](https://www.styled-components.com/) with React.  I have knowledge of Semantic HTML, W3C Accessibility Standards, SEO, the BEM naming methodology for classes, Flexbox and CSS Grid. |
| JavaScript | I have an understanding of the fundamentals of the language, including traversing the Document Object Model (DOM), understanding the call stack and how it functions, as well as the ECMAScript standards, including ES6 and the functional programming methods that were introduced with it. I am now using TypeScript for my projects going forward and have previously dabbled with the use of other front-end frameworks such as Vue.js and Angular. |
| React | Currently my main library for developing the front-end for websites. Proficient with recent revisions to the language (Including React Hooks). I have a basic knowledge of React Native as well, although I am keen to develop my knowledge in this area further.  I have used various state management solutions such as Redux and Apollo, although have recently been experimenting with use of the React Hooks useReducer and useContext in conjunction with the library [react-tracked](https://github.com/dai-shi/react-tracked) as my solution going forward. |
| NodeJS | This is the back-end I use for all of my projects. I currently use Apollo/GraphQL for database queries, although have experience using Express and MongoDB.  I am familiar with async/await syntax, callbacks, error handling among other common JavaScript features that are used for server programming with Node. |
| GraphQL | This is the API I use for database queries for all of my projects. This is used in conjunction with Node where I have written my resolvers and queries for how my front-end integrates with my server. |
| Sequelize | This is the ORM I use for my database queries in conjunction with GraphQL. While I have some knowledge of SQL query language, I prefer this due to convenience when working on my projects. |

# Employment History

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| **Employer** |
| Positive Regard Tech (Feb 2020 – Present)  **Full Stack Web Developer**  **Responsibilities:**  Currently developing a platform for capturing patient feedback in collaboration with the Senior Partner GP at Stephenson Park Health Group. I was tasked with rapidly developing a prototype using the software stack React, NodeJS, MariaDB and GraphQL. A demonstration website is available for the admin panel at [insightstation.xyz](https://insightstation.xyz/) (**Email:** [testperson@domain.com](mailto:testperson@domain.com), **Password:** OrangeTesting1).  This product has undergone two revisions, and was initially designed for touch-screen devices to collect feedback. However, due to the recent global pandemic, this has been re-developed into a platform for capturing feedback via unique page url. We are currently undergoing discussions about developing this application further with the North Tyneside GP Federation.  Given I work alone on my projects, I am responsible for every step of the development process. This includes work on both the front-end and back-end, as well as the maintenance and deployment of my project. I use a Digital Ocean droplet to host the majority of my projects, and as such am familiar with DevOps – including hosting a HTTP server with Nginx, enabling HTTPS with the use of Certbot, using SSH to facilitate secure connection with my server, how to configure a reverse-proxy, configuring firewall rules among other skills. |
| Stephenson Park Health Group (Sep 2019 – Feb 2020)  **Administration Assistant/IT Assistant**  **Responsibilities:**  Split role of providing on-site IT support and performing clerical duties. I worked with practice on a number of unique projects which gave me an opportunity to demonstrate my software engineering skills. One of my first tasks was to re-develop the practice’s website ([www.stephensonparkhealth.co.uk](http://www.stephensonparkhealth.co.uk/)). This was initially developed using the static site generator 11ty, although later this was expanded into a CMS using Strapi. |
| Vocare Ltd – Balliol Business Park (Apr 2019 – Sep 2019)  **111 Call Advisor** |
| Morrisons Plc – North Shields (Sep 2018 – Nov 2018)  **Customer Assistant** |
| Mental Health Services – Newcastle upon Tyne Hospitals (Nov 2015 – May 2018)  **Admin Assistant** |
| G4S Utility Services – Cobalt Business Park (Dec 2014 – Mar 2015)  **Admin Assistant** |
| Tameside Hospital NHS Foundation Trust A&E Department – Ashton-under-Lyme (Feb 2014 – Aug 2014)  **Receptionist** |
| Synthesis IT – North Shields (Nov 2012 – Nov 2013)  **Apprentice IT Technician** |
| Renewable Energy Solutions – North Shields (Oct 2011 – Mar 2012)  **Admin Assistant** |

# Education and Qualifications

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| **Institution** | **Qualifications Attained** |
| **Open University** (Computing and IT BSc)  (September 2018 - Present) | Web technologies (TT284): **Distinction** |
| Object-oriented Java programming (M250): **Distinction** |
| Introduction to Computing and IT 2 (TM112): **Distinction** |
| Introduction to Computing and IT 1 (TM111): **Distinction** |
| **Tyne Metropolitan College** (A Levels)  (September 2008 – June 2010) | English Language A2: **B** |
| Extended Project Qualification: **B** |
| English Literature A2: **C** |
| Media Studies A2: **C** |
| English Language AS: **A** |
| Media Studies AS: **B** |
| English Literature AS: **C** |
| Sociology AS: **D** |