

# Alexander Matthew Bunting

Full Stack Web Developer



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I have spent the last 13 years as a Physics teacher both in the UK and internationally, but throughout this and before I have always continued to pursue web development both as a hobby, and as a way to help the students I teach. I am now pursuing web development professionally.

## Skills

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<b>Javascript / Typescript</b>	I work mostly with the Angular framework, but also have experience of jQuery and 'vanilla' Javascript.
<b>Scripting Languages</b>	HTML5 and CSS (SCSS) with some significant previous experience with PHP.
<b>Databases</b>	Primarily working with MySQL but also some experience with Firebase, MongoDB and GraphQL.
<b>NodeJS</b>	I have been using NodeJS for my backend REST APIs for the past few years. Prior to this PHP was used as a backend service.

## Education

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<b>2011-2012</b>	University of Cambridge	<b>MEd</b> (Master of Education) Science Teachers Researchers and Practitioners
<b>2004-2009</b>	University of Edinburgh	<b>BSc Hons</b> Physics with Honours in <b>Computational Physics</b> Awarded Second Class : Upper Division (2:1)

## Major Projects

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For other projects, more detail on the major public projects and Github links please see my personal website, <https://www.alexbunting.co.uk/>.

<b>SmartSort</b>	SmartSort ( <a href="https://smartsort.org/">https://smartsort.org/</a> ) is an application designed to students according to their own preferences. It includes a forms utility to accept data, and a dashboard designed to help educators quickly and easily organise large groups of people. Written in the Angular Framework with a NodeJS REST API and MySQL database, this was a commissioned project.
<b>Quizzical</b>	A company set up by myself and two other educators, Quizzical is an academic question writing company. My role is to build and manage a website which serves as an interface for the question writers, and build flexible tournaments (exported to google docs) quickly to make the running of tournaments simple.

<b>ReportZone</b>	ReportsZone ( <a href="http://reportzone.sweeto.co.uk/">http://reportzone.sweeto.co.uk/</a> ) is a tool designed to help teachers generate personalised student reports exceptionally quickly, with a minimum of data required. Written in the Angular Framework with a Firebase backend.
<b>WordleLeagues</b>	WordleLeague ( <a href="https://wordleleague.sweeto.co.uk/">https://wordleleague.sweeto.co.uk/</a> ) is the place for friends to create their own Wordle based leagues and keep up to date with each other's scores. Written in the Angular Framework with a NodeJS backend and Mongo Database.
<b>!This&gt;#Phys</b>	!This>#Phys ( <a href="https://physics.sweeto.co.uk/">https://physics.sweeto.co.uk/</a> ) was primarily designed for students to do basic experiments on more accurate simulations than are already freely available during COVID. This is also a test site for other smaller projects. Written in the Angular Framework.
<b>Apollo</b>	Currently undergoing a full, modern revamp, Apollo ( <a href="https://apollo.sweeto.co.uk/">https://apollo.sweeto.co.uk/</a> ) is a teaching aid aiming to move the emphasis in the classroom from the teacher to the student. Written in PHP with a MySQL database.
<b>StellarNova</b>	StellarNova ( <a href="https://rednova.sweeto.co.uk/">https://rednova.sweeto.co.uk/</a> ) is a game in which a player tours the galaxy trading goods and amassing an empire. Currently in development, though much is currently implemented. Written in the Angular Framework, with a NodeJS backend and MySQL database.

## ***Relevant Professional Development***

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2020 - 2024	Udemy courses in Javascript, the Angular2+ Framework, NodeJS, CSS/SASS and Web Design.
2018	Certificate of Educational Technology and Information Literacy (COETAIL). One year course which focused upon using technology in education, culminating in the development of an EdTech website ( <a href="http://apollo.sweeto.co.uk/">http://apollo.sweeto.co.uk/</a> ) which was an effective tool in changing the classroom leadership from teacher to student.
2010 - 2023	<p>Whilst teaching I have developed many skills transferable into a web development environment the most significant of which are:</p> <ul style="list-style-type: none"> <li>● Problem solving skills, adaptability and innovation. Teaching requires a broad range of skills to help students of different levels succeed, and being able to adapt and innovate have been key to my success.</li> <li>● Being able to organise myself and meet deadlines. This was important not only for regular classes and long term school based goals, but also personal goals such as professional development.</li> <li>● Having previously spent time as a department head, grade level leader and an international trip leader I have had significant experience with leading teams of fellow teachers, and communicating with parents, teachers and students.</li> </ul>

## ***About Me***

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Born in the UK and a native English speaker, I enjoy hiking and freshwater swimming when possible and cooking, web development and games on a more daily basis. I am an easy going person who enjoys working in teams and learning from and with others.