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**Dr Bernard J. Mason**

Motivated and curious software developer with a strong focus on quality and stability. With 2.5 years of full time development experience and 6 years previously as an atmospheric scientist, I understand what it takes to solve complex problems. My passion for problem solving means that I strive to make the best quality applications possible. I am a strong communicator with experience in teaching and public speaking.

## Skills

**.Net:** C#, Resharper, ASP.NET MVC 5, Entity Framework (ORM), NHibernate (ORM), AutoMapper, Umbraco, WinForms

**Data:** MySql, MSSQL

**Source Control and Tools:** Git, GitHub, Octopus (CD), TeamCity (CI)

**Web front end:** JavaScript, TypeScript, React and Redux

**General Code:** Bash, Python, Matlab, LabView

**Other:** Public speaking, formal writing, teaching

## Experience

### Software Developer at Epro

Bristol, UK (08/2017 – Present). Epro is a national healthcare software provider, supporting NHS hospitals with critically important applications and systems. Epro has a strong emphasis on quality development processes with testing, code review, code guides, CI/CD, source control and pair programming. As such, my time at Epro has hugely expanded my skills and knowledge.

#### Responsibilities:

1. Develop parts of the core application. E.g. Writing a transcription service that would take audio from the main application and send it off for transcription (speech to text) from 3<sup>rd</sup> party vendors.
2. Develop auxiliary services and tools. E.g Writing a webhook service that would receive events from our source control site (GitHub) and propagate that information to our ticketing website (JIRA).
3. Review and test coworkers code.

### Software Developer at GNUPP Ltd

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Oxford, UK (08/2016 – 08/2017). GNUPP Ltd is a small development company based in Reading. Here, I gained a good foundational knowledge of the .NET framework, web APIs, entity framework and MSSQL.

## **Responsibilities:**

1. Magic the Gathering deck building application. Designed the database schema (MySQL), data migrations and wrote an interfacing data layer.
2. WinForms application that would talk to the data later, and built part of an API for external interfacing.
3. A basic HTTP web server for an MVC 5 blog.

## **Postdoctoral Researcher at National Oceanic and Atmospheric Association**

Chemical Sciences Division, Boulder, Colorado (08/2014 – 08/2016). Flight data analysis to assess the instrument accuracy and precision against other commonly used aerosol absorption measurements.

## **Ph.D. in Aerosol Optical Properties**

University of Bristol, Aerosol Dynamics Group, Professor Jonathan Reid Laboratory (01/2011 – 06/2014). Published thesis available on request.

## **Personal and Hobbies**

In my spare time I am an avid cook and foodie. I enjoy running frequently and take part in competitive races. I also have a keen interest in strategic board and card games, in particular, Magic the Gathering.