

Joe Wood

Phone: 07971094924 • LinkedIn: <https://uk.linkedin.com/pub/joe-wood/6b/787/323>

• E-Mail: joe.wood@bbc.co.uk

Profile

I love tech and enjoy interacting with ambitious and interesting ideas and I'm committed to building my skills as a developer. I approach problem solving with creativity and enthusiasm and really enjoy working with others and developing relationships within my team.

I work full time with the PHP Laravel framework developing innovative applications for the BBC but I try and fit some Python and Vue.js in where I can.

I am currently working for the BBC's internal software engineering teams as a software engineer.

Skills

- PHP, Python programming
- Git
- Pair programming
- Package management systems in particular composer
- AWS
- Computer Networking basics – completed the Cisco CCNA training
- Routing & switching in packet based networks as well as circuit networks
- Satellite uplinks
- Self motivated, enthusiastic with good attention to detail
- BNCS

Experience

Software Engineer

05/16-present

The BBC's internal software engineering team develops intuitive mobile and web apps to help our staff get stuff done. These apps include simple and effective team management tools for tracking when team members are in the office, to broadcast critical apps used by journalists to ingest media into the BBC's news systems.

My role as a backend developer is to work in an agile way using the Laravel framework to build PHP REST APIs to power these apps. Throughout this role I often work on brownfield projects where I have been the core driver in the delivery of backend systems. In particular, I am most proud of our portable news gathering app. Here I used my previous broadcasting experience to develop from the ground up an ambitious and exciting way of ingesting media into the BBC's news systems that is heavily relied upon every day by journalists to broadcast breaking news stories.

This makes our endpoints heavily relied upon by many people across the BBC and reliability should always come with tests. Because of this I have become practiced in TDD providing effective test coverage for all our endpoints and services to ensure the best code



quality. Good communication at all levels is also essential to this role. I take part in pair programming, peer reviews and share knowledge with the team to help us build - best in class - API's.

All the API's are made using the PHP Laravel framework to produce consistent JSON responses. As well as writing endpoints I also build monitoring and support tools so the team can operate and respond to any issues that may occur.

As a team, we want to make sure that any developer could be given access to the repo and be able to easily figure out how it all works no matter how complex it may be. As well as writing clean code that anyone can walk in and understand I also keep clear written documentation that's accessible and up to date.

Apprentice web developer

02/16-05/16

The Mobile Apps team is responsible for building, developing and managing all internal build mobile apps for BBC staff use. The team gathers requirements and identifies business needs and opportunities, designs the app UI and UX and technical standards and delivers completed apps to the BBC's corporate appstore. My role is to deliver a portion of the back end PHP requirements for these mobile applications.

BBC newsgathering apprentice Broadcast Engineer

04/15- 05/15

Worked with Sat Truck UKI-888 around the country doing live satellite uplinks. I set up live camera positions at various party events, found and brought up satellite links including checking the lines with Elstree, the BBC's central election hub. I worked in new and exciting environments on a day-to-day basis often to tight deadlines. This was done toe-to-toe with journalists, cameramen, engineers and the general public for the BBC's news output.

Ericsson Engineering Control Area and MCR

09/14-12/14

A practical, hands on role, gaining experience in an MCR where I worked with multiple live feeds at any given time. To accomplish this I had to become familiar with a diverse range of broadcast equipment such as BNCS, frame rate converters, Dolby encoders, Valid readers and Satellite control systems.

I also supported the play out automation systems used at Red Bee, in particular Snell's Morpheus playout automation systems. I grew to understand the way automation software interacts with servers and schedulers that in turn lead to a strong understanding of resilient IP and video networks.

Education

Broadcast Engineering BEng (Hons)

09/13-06/16

Modules: Java programming, Database and datamining, Power and Control Systems, video and audio systems, Antennas, Propagation, RF, Optical Components and Technologies, Audio and Video Coding, Processing and Editing.

Cisco Network Academy CCNA

09/13 –06/16

Includes routing and switching essentials to enable packets to be propagated around a network securely and effectively. What it also included was network scaling concepts and how they could be implemented in any size network. The course is largely practical

