Joe Wood

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Profile

I am committed to building my skills as a developer in the broadcast world where I enjoy developing relationships and being part of a cohesive team. I love tech and enjoy interacting with new and interesting ideas on a day-to-day basis including developing these ideas with a practical hand on approach.

I work full time with PHP but I love Python and Vue.js.

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

Skills

· PHP, Python programming
· Git
· Pair programming
· Package management systems in particular composer
· Knowledge of a multi-studio technical operation and processes to diagnose related issues
· BNCS
· Raspberry pi controllers
· Computer Networking basics – completed the Cisco CCNA training
· Routing & switching in packet based networks as well as circuited networks
· Satellite uplinks
· Self motivated, enthusiastic with good attention to detail

Experience

Junior Software Engineer   **05/16-present**

The BBC's internal software engineering team develops native mobile and web apps for internal staff use. My role as a backend developer is to work in an agile way to build PHP REST APIs to power these apps. Throughout this role I have become well 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 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