# Arjun Toor | Senior Software Engineer

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### About

As a determined and talented professional, I am looking for interesting new opportunities within the software and web application development industry. My proven record has enabled me to work on a wide range of successful projects, for a number of firms ranging from startup to global giants. My skillset and experience is constantly growing due to my ability to become effective with new technologies quickly. I wish to work in an environment that focuses on delivering high quality software, which places value on the self-starting and progressive thinker.

### Work

#### British Telecom 2016-05-03 — Present [http://bt.com](http://bt.com/)

**Senior Software Engineer**

I worked on a specialist team on a Cyber Security platform, for a foreign government. The project consisted of a range of Big Data technologies, including Hadoop, Kafka, Impala and Spark, in addition to core technologies like Java, Python and Bash. I developed a number of pipeline components to run in a clustered environment that integrate third-party threat monitoring products into the data ingest pipeline, such as FireEye, DarkTrace and Cisco FireSIGHT. I also worked extensively on new enhanced features such as performance and metric data gathering (with Java JMX, DropWizard and Check\_MK), automation (with Docker, Ansible, Vagrant, etc.), and interfacing via APIs.

#### Highlights

* Visiting the foreign customers’ premises on multiple occasions to lead the deployment of my teams’ components. Gained exposure to the critical operational element, as well as an understanding of the DevOps methods used by expert staff.
* Extensive experience of leading a team of developers of varying expertise, delivering against project deadlines. This involved mentoring team members, conducting code reviews, and sharing good practice and knowledge on software development principles, e.g. TDD and design patterns.
* Managing sprint planning sessions, advocating regular scrum meetings and collaborative working.

#### British Telecom 2012-04-17 — 2016-04-30 [http://bt.com](http://bt.com/)

**Systems Developer**

The BT DFTS project is a large scale contract providing communications technology to the Ministry of Defence. I developed and supported the Siebel Call Center and related systems which handled ordering, fault reporting, and more. My focus was in the design and development of new functionality, both internal and integrated, with emphasis on automation.

#### Highlights

* Was solely responsible for end-to-end implementation of a WCF .NET middleware service to allow two systems from different vendors to communicate and synchronise data. Required collaboration between multiple stakeholders and areas of the business.
* Developed a .NET Web Service to integrate Excel spreadsheets with the Siebel system, to create and process orders. Involved integrating a number of technical components e.g. SOAP, Oracle, OLEDB, and .NET drivers.
* Helped carry out the large scale upgrades of our production Siebel instances from Siebel 7 to 8. Required significant planning and technical involvement at all levels
* Implementation of a generic ASP.NET SOAP interface service to run processes on demand. Has repeatedly been used by other developers to interface into our systems.
* Maintaining a custom .NET class library containing many useful generic components, e.g. command line parsing and utility classes. Has been widely re-used.
* Developed many other .NET applications covering, for example, data feeds, fuzzy text matching, and data transformations.

#### Wiltshire Police 2011-03-01 — 2012-04-13

#### <http://www.wiltshire.police.uk/>

**IST Development Officer**

I was responsible for the design and development of internal web applications and developing solutions for a variety of important real-world problems. In a short space of time I tackled many challenging projects, whilst learning the operational aspects of working for a Police force. This was a fast paced, multi-functional role with focus on time-scales and reliability of solutions, on which I was able to deliver successfully.

#### Highlights

* Developed an 'all in one' ASP.NET web application used by the senior task force for daily meetings to manage high-priority cases. Consisted of a dynamic front end using ASP.NET AJAX, several layers of data extraction using TSQL and SSIS, and integration with the NicheRMS API. The site has since been shared with neighbouring police forces.
* Developed an interactive organisational chart web app using ASP.NET, Javascript and gRaphael, and SQL Server / MySQL for the back end data extracts.
* Was heavily involved in a contract project to develop a new set of systems around reporting and statistics. Had exposure to an array of new technologies, including Microsoft Business Intelligence stack and dimensional data modelling. In the process I gained a good understanding of the agile management style.
* Strived to implement better development practices and coding techniques amongst the team, making a great impact

#### Digital Trading Creative 2010-07-01 — 2011-03-01

**Web Developer**

I was responsible for developing customised DotNetNuke websites and modules, working for an entrepreneurial website development and client consulting company. All projects involved working with graphics designers, business managers and clients.

#### Highlights

* Created several DotNetNuke websites with custom shopping cart systems and integration with the PayPal IPN system.
* Consistently met challenging deadlines for all projects, showing my ability to prioritise and multi-task conflicting projects effectively.
* Post-employment, I provided technical consultancy carrying out further development work for the company

#### IFPI London, Madrid, Hamburg and São Paulo 2008-06-01 — 2009-09-01

[http://ifpi.org](http://ifpi.org/)

**Junior Systems Developer (Industrial Placement year)**

I was responsible for the development and management of automated online data harvesting, whose data was used in legal pursuits of Digital Music Copyright violation. The role entailed full solution design and implementation. I would regularly provide training and coaching to partners across the globe; thus I played a key role in coordinating the global effort to reduce internet music piracy.

#### Highlights

* Development of several hundred bots to perform web data extraction, using a Java-based system (now Kofax). As the first in the industry to use the software for this purpose, I developed many of the techniques which are still used today.
* Development of an internal JSP website to manage all aspects of the extraction layer, including an Oracle-based API for global partners to interface with our system.
* Upon recommendation from my senior managers, I provided seminars and training in person for small to large groups in Spain, Germany and Brazil, with exceptional results.

### Education

#### University of Birmingham, UK 2006-09-01 — 2010-06-01

**Computer Science**

BSc (Hons) - 2:1

### Awards

#### M101P: MongoDB for Developers

Awarded 2015-07-01

by **MongoDB University**

I took this course as I was learning to work with the MEAN stack for my personal development projects. The course was an excellent self-study format and introduced me to the concepts of NoSQL, and gave me a good understanding of MongoDB architecture. A completion certificate is available to view from my homepage.

### Skills

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| --- | --- | --- | --- |
| Full Stack Development | | Administration | Databases |
| JavaScript  NodeJS  AngularJS  Vue.js  Firebase  Yeoman  jQuery  HTML5  CSS3  Bootstrap  Java Golang  .NET  ASP.NET | Python  Flask  Bottle  WCF  REST  SOAP  XML  XSLT  WCF  WPF | Linux Bash scripting Automation Ansible Puppet Vagrant Docker Package management Package distribution Windows PowerShell Batch scripting Registry Virtualisation Siebel | MS SQL Server MongoDB Oracle |

### Languages

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| --- | --- |
| English Native speaker | Punjabi Professional working proficiency |

### Interests

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| --- | --- |
| Professional FOSS  Big Data  Webapp building | Personal Health and fitness  Cooking  Playing instruments |

### References

I have known Arjun for a long time now, both professionally and personally. Arjun was one of the best grad developers I have worked with - he was knowledgeable, enthusiastic and a pleasure to work with. During his time at IFPI he was keen to learn new technologies and was able to deliver on some solid solutions which are still in use. Arjun also has a thorough understanding of fundamentals of computer science and was also very creative in his programming. I look forward to working again with Arjun in the near future.

**— Pratim Das**