Pranav Kapoor

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Profile

- An enthusiastic and hard working individual, highly motivated who strives for challenges, and is dedicated to complete tasks to the best of my abilities.
- A successful Developer with experience in Java, C++, Python and Web apps
- **I am eligible to work in the UK.**

Summary of Employment

Date	Position	Company	Responsibilities
June 17 To Present	Sr. Software Engineer	Valitor	- Development of IPS-Link solution using Java as a Service - Concurrent programming using AKKA (Java) - Web Development using Spring Boot MVC, AngularJS - Development of test interfaces using Java(SWING) and Python(Py-QT) - Test Driven developments using JUnit - Source Control using Bit-Bucket and Jenkins
March 17 To May 17	Java Developer (Operations)	Travel Fusion	- TF-XML API Management - HTML, JSON, XML Scraping - C5 Framework for Integration - Java 8 - Hibernate Framework - Troubleshooting bugs in Framework/Integrations - Highly Scalable/Available and Distributed Systems
Jan 17 To March 17	Software Developer (part-time)	Global Parts Ltd.(UK)	- Development of desktop applications (Java-swing) as and when required - Maintenance of inflow and outflow of data - Website maintenance
Jan 16 To Nov 16	IT Consultant	Navin Associates Pvt Ltd. (**PIAGGIO**) (India)	- Desktop Applications development in (Java-swing) - Management of clients and their requirements using self developed software - Maintenance and optimisation of website - Design and setup of effective networks - Troubleshooting - Web Designing in HTML/HTML5 , CSS/CSS3, BOOTSTRAP(responsive) - Interactive UI/UX using JavaScript, JQuery(framework) - Web Development using Java Servlet, Java Server Pages, AJAX - Spring, Hibernate JPA(ORM), Spring MVC - Testing the codes using various testing techniques

Dec 13 To Sep 15	Sr. Executive(Management Information System)	AVER EXIM (P). LTD.(India)	- Desktop Applications development in (Java-swing) - Database Management using developed software(MySql) - Data Identification, Data Collection & Data Analysis using above software - Resolving Business & IT issues - Handling accounts and Authorisations - Training new trainees - Project management of LAN configurations and - infrastructure networks - Managed data cloud

Education

2016   Diploma in Adv. Java – GTB Computer Education (ISO 9001 certified and Govt. Registered)
        Diploma in C and C++ – GTB Computer Education (ISO 9001 certified and Govt. Registered)
2014   B-Tech, Computer Science & Engineering - Rayat-Bahra Institute of Engineering and Nano-Tech, India
        Affiliated to PTU (**UK NARIC approved**)
2010   CBSE (12th) Central Board of Secondary Education- 1st class

Projects

2017   **IPS-LINK** v2

 Environment: JAVA
Description: It is Java based multithreaded service that acts as the link between the EPOS screens at the merchant till and their respective ped (payment devices). It is a TCP socket based service which accepts an "**IPS protocol**" messages in the form of "**Json**" string and in-turn triggers a function on the ped. It uses request response system with request validation at various levels. The client request received is validated and "**Ack**" is sent as response else, "**Nack**". "Ack" is followed by the data message that contains different response tags including receipt. This application can hold up to 20k concurrent connections on one machine with billions of concurrent threads processing the connections (Request-Response). All the transactions are logged in database using "**SQL-Lite**" and is shown on the console in in terms of text file using "**log4j**". This application is made using "**AKKA**" concurrent application protocol interface which works as "**actors**" which are light weight threads. The architecture of this application also follows "parent-children actor" format where parent actors start the child actors which are helper actors. For the view for the stored transactions in database "**Spring Boot MVC**" is used with "**Angular**" and "**Ajax**" for managing frontend.

2016   **Pikagram**

 Environment: Web Application (Java-Based)
Description: This application is a Java Based Web application which uses "**Java Server Pages**" for the server side and **JavaScript** and **JQuery** event handlers for client side actions. "**Ajax**" is used as bridge between client side and server side. **MySQL** is used as the database server or the background side of this web application. **Apache Tomcat 7** is used for the application and this application is developed in "**NetBeans 8.1**" IDE. For UI **HTML-5** AND **CSS-3** is used along with **Bootstrap library** in order to make the UI look more attractive and responsive. This application is somewhat like a well-known application "Instagram" which is used to share images with the followers and has ability to gather likes-comments from the followers and in addition to that various filters are used to enhance the image to be shared according to the user's choice. This web-app was made for sharing the company pictures of products and gatherings. The framework used is **Spring MVC and Hibernate ORM**.

2016   **Social-Hub**

 Environment: Web Application (Java-Based)
Description: This project is a "web-application" and based mainly on "**Java Server Pages**" for server side programming and "**JavaScript**" and "**JQuery**" to provide event handlers for **JSP** action. To bridge client side with Server side "**AJAX**" is used. The "**ECLIPSE**" IDE was used to build this app using "**Apache Tomcat 7** and **MySQL** server". Further "**HTML**" and "**CSS**" is used to build the attractive User-Interface of the web application.

Further, "**Bootstrap**" is also used to make the web application "responsive" according to the screen it is accessed on. This app allows user to sign-up and then as a security measure the account is activated through the link the user receives on signing-up. On activation, the user can add friends, update statuses, pictures, etc. **MySQL** has been used as back-end for database. This Web-app was made to setup a social network among the company employees and branches using **Spring MVC**.

2016   **Pay-View**

Environment: Java Runtime Environment

Description: This project is a "**desktop application**" and based mainly on the Java Programming Language. This is entirely based upon the **Core Java** concepts of "**awt**" and "swing". The "**NetBeans**" IDE was used to build this desktop app using "**Xxamp Server -apache and MySQL server**". This app takes the basics from the user like name, residence, post, etc. and based on these calculates the respective net salary inclusive of all the allowances and deductions. It is administered by an admin which authorises the employees to use this app giving username-passwords to them.

2015   **Society Camera Utility** (OSPF explained)

Environment: GNS/Packet Tracer

Description: This project was based mainly on the network routing protocol named **OSPF**. Various Bank Branches (**LANs**) were interconnected in a particular cluster (LAN), **VLAN** was used to put restrictions in LAN. Other security measures were also shown and implemented using access lists i.e. **ACLs**.

2014   **Network Address Translation(pat) &RIPv2**

Environment: GNS

Description: This project was based on basic **Networking terminologies**. The project shows the **Port Address Translation** using the **routing information- Protocol version 2**. **PAT** is a **Network Address Translation** technique in which the packet sent from all the nodes and the routers in LAN through a single **private IP** address but with different ports hence hiding the information of the LAN Network.

2012   **Global Internet Model**

Environment: CISCO Packet Tracer V 7.5

Description: This project was based on the basic networking concepts like **routing and switching**. Different routing protocols like **OSPF< RIPv2 and EIGRP** were used to provide **routing** between various LANs. Other terminologies used were **ACL, DHCP, VLAN**, etc.

This project was emulated using **CISCO Packet Tracer** which shows the where communication among various geographic location are.

2011   **PK'Z Muzite**

Environment: **HTML**

Description: It was a static music website in which many audio and video clips were embedded using their respective codling to make it look dynamic.

Additional Skills

- **Operating Systems:** MS-Windows All Versions, Windows-10, Mac OS, Linux, IOS, Android OS
- **Packages:** MS-Office, Steinberg Nuendo 2, Steinberg Cubase 6
- **Data base:** MySQL, Oracle, SQL-Lite
- **Web Technologies:** HTML-4, HTML-5, CSS, CSS-3, JavaScript, AngularJS, JQuery, Boot-Strap, Java Server Pages(JSP), Servlets
- **Programming languages:** C, C++, C#, COBOL, Java 7/8, Python, Batch Scripting
- **Languages:** Native speaker in Hindi, Punjabi; Business fluent in English
- **Others:** Computer hardware troubleshooting, transmission media, TCP/IP model, OSI model, Network devices, IP addressing, Sub netting, Super netting, Routing<static, dynamic-using distance-vector/link-state/hybrid protocols, default>, VLAN, ACL, NAT
- **Source Control:** Git, Bit-Bucket, Jenkins
- **Frameworks:** Hibernate-JPA(ORM), Struts-2(MVC), Tensor Flow, Spring, Spring Boot, Spring-MVC, SWING, AWT, AKKA

Training Undertaken

- HTML
- CSS
- CCNA
- C/C++
- A++; N++
- AMCAT certified
- Java core+
- JavaScript
- JQuery
- Java Server Pages and Servlets
- Lynda S

Hobbies

- Singing
- Playing musical instruments
- Learning new technologies
- Gym