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Objective:

Looking for a suitable opportunity upon completion of post graduate Diploma studies in Ireland, Europe. Did combination of Business and Information Systems as research work and implemented projects of MS SQL, Core PHP, Java, Hacking, Network File systems, Networking, Cloud Computing & Software Defined Networking, internet security, Network Security, Network File Systems & Network Designing alongside studies. All the projects have gone through all development phases and all sorts diverse of set of Skills, techniques, tools were in projects used right from generation of Business Objectives, Requirement specification reports, Designing the product, Modelling to product implementation from the scratch.

Projects completed along with studies in PHP - MySQL.

wttsnxt.com (A PHP - MYSQL search engine): http://www.wttsnxt.com/

A huge PHP-MySql Search Engine uses various aspects of PHP-MySQL such as search the database indexing, collection of information from various data sources and automated robots to collect all the information from across the web, and a world class radio station. | **Other Projects in PHP, MySQL**

MIIT EDU, http://wttsnxtcom.ipage.com/miitedu/ (The Login id: 1, password: 123456789) | GS Chauffeur, http://wttsnxtcom.ipage.com/gs/ | harindersinghdhaliwal.com, Creed http://wttsnxt.com/creed/, http://wttsnxtcom.ipage.com/harindersinghdhaliwal/, Wonder Valley, http://wttsnxtcom.ipage.com/wonder\_valley/.

Internal Projects completed during post graduate course

* **Student Information System for school library in Java:** It’s a student information system where students teachers clerks and other school staff collaboratively can register their accounts in JAVA.
* **Library Management Dat**ab**ase for transforming of College / University Library using Microsoft SQL Server & Management Studio:** Designed and developed Database for project on Library Management, aimed at to turn an obsolete library into a profit taking, scenario Objectives, designing, modeling & implementation.
* Software Defined Switch: Project for transforming the cloud server and Data C0entre Environment in networking: Transformed a server machine into a big mega router thereby processing billions of packets per second for cloud & Data Center environment and replacing the role of small costly network routers by transforming router duties to computer servers whose configurations & softwares can be changed over the time.
* **Internet Security: Project to prevent Security Agencies and attackers from sniffing data who re-route your network traffic through their servers and read your emails and browsing:** The project consisted of display of protection of the user data from Hackers, Security agencies and other companies which are tracking user activities and sniffing user data for example reading their emails, noting what they browse on internet..
* **Network Security & hacking:** The project emphasized on hacking and compromising user data ex reading victim emails, jamming servers, hacking user wifi etc by finding vulnerabilities in various layers of OSI model namely , presentation, transport, Session, Link and physical layers through and thereafter checking those layers by fixing their vulnerabilities in order to protect user data against such attacks.
* **Network Systems: SAMBA configuration & connection:** The project emphasized interconnection of Microsoft OS and non-Microsoft O.S computers like Cent OS, Linux etc. with different hard disk file systems like EXT 4 unlike the Microsoft’s NTFS and as such client OS on any machine which can’t read files of other due to others incompatible file system start behaving like the files are present on the same hard disk with the actions of the same OS apply on the files and folders like open files / folders in explorer, copy / delete files, Share the files etc. without any software thereby giving new life to computers providing them with scalable hard disks and shared resources where actually are present on server machines.
* **Network Design for company:** The project consisted of connecting the offices of company with different departments thousands of Kilometers apart of a mid-sized company who have their own intra network spread through their multi ties offices instead of internet through leased network lines connecting their offices..

Added Business Skills

Research Supply chain management, MIS, DSS, Cloud Computing, & user trend, questionnaires, online surveys, google forms, signed surveys, a tests, online pilot & final surveys, data coding & editing and spss stistics, t Tests, Cross Tabulation tests, frequency Bar Charts, pie charts, Histo grams, Pearson Chi-Square, Continuity Correction, Likelihood Ratio, Fisher's Exact Test, Linear-by-Linear Association, literature reviews, Harvards formatting Citations & Bibliography, Business Rules, Business Objectives, Scenarios..

Computer Language Skills: projects

**LANGUAGES IN PROJECTS:** PHP, JAVA, XML, Flash AS3, Word Press, Regular expressions REGEXP, PHP, HTML, DHTML, CSS, XML, jQuery, Java Script, Ajax | **Tools Used:** Eclipse for Java, Zend Studio PHP IDE, Eclipse, | **DESIGNING:** Photoshop, Dream Weaver.

Computer Language Skills in education

**LANGUAGES:** C#, ASP.Net, Visual Basic, C++ | **Tools Used:** Visual STUDIO IDE, WAP & WML

Database Skills: Projects

**DATABASE DESIGN & MODELLING:** Entity Relationship Diagrams. | DATABASE: MS SQL Server, MySQL Server, DATABASE MANAGEMENT : Microsoft SQL Server Management Studio, PHP My Admin | **DB KNOWLEDGE:** 3.5 NF, Views, Stored Procedures, Triggers, Unions, new tables, DML & DDL, SQL Queries, database modelling, stub codes..

Software Design & Modeling Skills: Project

**SOFTWARE DESIGNING & MODELLING:** Class Diagrams, Object Diagrams, Use case Diagrams, Activity diagrams, Collaboration Diagrams, Deployment Diagrams & Sequence Diagrams, Stub Coding | SOFTWARE USED: Argo UML..

Requirement Reports in projects

Business Scenarios, Business Objectives, Business Requirements, Business Rules, Entity Relationship Diagrams, Use Cases, Test Cases..

Network Security Skills: Project

**SKILLS:** OSI Layers Hardening,MITM, ARP Flooding, phishing, XSS poisoning & spoofing,Linux, Hacking Wifi WEP, WPA, Man in the Middle Attack reading emails MITM, MD5, SHA, Static ARP Tables, Port Security, Firewalls, application hardening | SOFTWARE: Wire Shark, Cain & Able, Etter Cap, Ubantu, Back Track, Air Crack, PGP, SSL, Anti Spam, Hamster, Ferret, ARP Watch, Anti Phish, ARP Watch..

**CERFTIFICATE ALOGARITHMS:** SSLs, TLS, Generating Certificates, Rinjdael, RSA, Open PGP, Digital Signatures, Public – private Key generations Algorithms to enhance security. **SECURITY:** Knowledge of worms, viruses, rootkits, TPMs, Software Based attestation, Security Solutions etc. Various type of malware.

Internet Security: Projects

SKILLS: Network packet path rerouting, connection to VPNs, 3rd party element control, beacon control, scripts control, cookie control, hiding ip addresses. | SOFTWARE: Tor Onion Routing, Ghostery, Collusion, Secure VPNs, Proxy server, Https everywhere, No Script etc.

Network Designing: Projects

NETWORK DESIGNING:Network Diagrams, Topologies, Switch – cabling, hardware designing & selection, costing, protocols selection, Vlans assigning, Port Trunking, subnetting, Creating DMZs, routing, Prioritizing, Host ip range and configurations, IP Sec tunneling etc. | CONIGURATION:VLAN configurations, VPNs etc. | SOFTWARE: Edraw Max.

Software Defined Networking: Project

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SKILLS: SDN, DPCL, Mini Net, Open Flow, North Bound & South Bound APIs, Linux & commands CLI, VM ware, Open V Switch, IP & Mac Address Configuration etc. | SOFTWARE: Mini Net, Linux CLI, VM Ware.

Cloud Computing & File Systems: Project

**SKILLS:** Microsoft CIFS SMB protocols, Samba Configuration, Linux CLI, Gedit, Gparted, APT – Advanced packaging tool, CLI installation, CLI configuration, permission configuration, file permissions setup, authentication and authorization, adding users, changing ownerships.. | SOFTWARE: Linux, Samba, Virtua Box, Gedit, Gparted, APT.

Basic Skills knowledge: Project

**OPERATING SYSTEMS:** Linux CLI and commands, XUbantu, Debian Cent OS, Windows 8, Windows 7 | **OFFICE :** Office 2013, Word, Power Excel, access, Shell Commands.

Education

**Post Graduate COMPUTING & INFORMATION SYSTEMS, DIP. SEPT 2012 – Oct 2014**

HETAC & Liver Pool John Moores University, Dublin, Ireland, Europe.

Punjab Technical University, B.S.C - I.T - Information Technology SEPT 2009 - Mar 2012

Indo Swiss Training Centre, Instrument Technology Diploma (3 year) AUG 2004 - AUG 2007

Chandigarh. CSIO, Indian Scientific Research laboratory participating in defense and space projects, http://en.wikipedia.org/wiki/HAL\_Tejas (CSIO, 4.5 generation Fighter Jet)

Previous Employment history

* **A QRG Enterprise: Tool Room Engineer: Jigs & Fixtures (Aug 2007- Nov 2008)**

Auto Cad MIS, MPR reports jigs fixture mould designing, lathes, milling grinding, tool room production ISO audits etc., (SEL, Havells, a Q.R.G enterprise and **Worlds second largest lightning group.** )

* **Developer - PHP, Web Root Technologies,** Chandigarh: Jul 6, 2015 to present PHP- MySQL, programming, HTML, CSS