

## PERSONAL DATA

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## EDUCATION

**2011-2015:** BS Computer Science from Air University Islamabad  
**2014:** Certified Windows Apps Developer from Microsoft Innovation Centre Lahore.  
**2012:** Certified PHP Web Developer from NICON.  
**2011:** Pre-Engineering from IMCB I-8/3 Islamabad.

## TECHNICAL SUMMARY

- **JavaScript**
  - React JS
  - ReactNative iOS, Android
  - Redux and SAGA
  - Vue JS
  - Node JS, Meteor
  - Express JS
  - Angular JS
  - jQuery, AJAX
  - NPM, Yarn
  - Webpack
  - GULP
- **PHP**
  - Laravel
  - CodeIgniter
  - Magento
  - WordPress
  - *Composer*
- **Databases**
  - SQL
  - MySQL
  - MS SQL
  - Eloquent ORM
- **Version Control**
  - Git
  - Github
  - Bitbucket
- **UI, DATA**
  - HTML5, CSS3, Flexbox
  - Bootstrap, Foundation, Materialize
  - JSX, LESS, SASS
  - XML, DTD, XAML
- **API**
  - REST, SOAP
  - JSON, XML
  - Facebook, Google Analytics
  - Twilio and others
  - cURL
- **Tools**
  - VS Code
  - Web / PHP Storm
  - Atom, Sublime
  - MS Visual Studio
  - MS Web Matrix
  - Netbeans
  - Eclipse
  - VirtualBox
  - VMware
  - X/L/W/MAMP
  - Valet Server MAC
  - Dreamweaver
  - FileZilla, SSH
- **C/C++, C#, Java, R**
  - Assembly Language x86
  - MIPS AL
  - OpenGL, GPU Programming
  - JOCL, OpenCLC
- **Cloud**
  - AWS (Amazon Cloud)
  - Azure (Microsoft)
  - Google Cloud Platform
  - OpenStack
  - Hadoop
  - LemonStand
- **Operating Systems**
  - MacOS, iOS
  - Windows 10, UWP
  - Linux, Android, Ubuntu, CentOS, Kali, Redhat
- **Others Tools**
  - Wireshark
  - CISCO Packet Tracer
  - R Studio
  - WEKA
  - RapidMiner
  - LaTeX
  - Excel Power Pivot
  - MS Office

## **WORK EXPERIENCE:**

I am enthusiast and passionate software developer with 6+ years of proven experience in developing and deploying large/small scale applications in different organizations. I have worked on different technologies related to Web, Mobile, Desktop and Cloud Platforms

- **United Sol (Pvt) Ltd. (January 2016 - Present):** As a **Lead Software Engineer and Solution Architect**, I have successfully completed multiple projects individually and by leading a team of developers.
  1. **2016-2017: Healthginie (now DocPro)** (<https://www.docpro.pk>) is a web portal for doctors and patients. Patients can discover doctors, filter through different categories and expertise and easily book appointment with them. It has an advanced admin panel for call centre agents and advanced analytical functionalities for admins. The Application is developed using PHP **Laravel** Framework. I was responsible for complete application life cycle from documentation, architecture design to development. Admin **Demo available at [gamingumar.com](http://gamingumar.com) Demo Video section.**
  2. **2016-2017: Distributed POS System** The application is heavily being used at famous bakery chain (Tehzeeb) in Islamabad and Rawalpindi, having advanced syncing functionality for sales and products from multiple branches. Owners can view different type of reports from all branches. The application works offline and syncs with the server also such that it doesn't impact the performance of application while being heavily in use 24/7. I am responsible for complete architecture design of distributed system, offline and online syncing architecture, development including deployment mechanism. The application developed using PHP CodeIgniter, Redis, Javascript. **Demo available at [gamingumar.com](http://gamingumar.com) Demo Video section.**
  3. **2017-2018: E-Commerce app React Native (Yeebly)** for Android and IOS, with Backend in **Magento**. It is using ES6, Redux, React Navigation and Expo. App can be downloaded from <https://expo.io/@gamingumar> **Google Play and Apple App Store. Demo available at [gamingumar.com](http://gamingumar.com) Demo Video section.**
  4. **2017-Present: SaaS Application for Construction Industry**, as Lead Developer and Solution Architect, I am leading a team of 4 developers working on a product using **Autodesk** Technology with Backend in **Laravel** and **Node JS** along with an iPad app. I developed a smart bot to extract and interact with WebGL and web frontend to extract different type of information (critical for product) and render on server side using Node JS. Along with that I worked on its backend API and whole architecture.
  5. **2018-Present: Restaurant App built with React Native.** I am working along with one other developer on this app. It is designed for restaurant industry. For iPhone, Android and iPad.
- **RDX Sports (September 2015 - December 2015):** As PHP Developer, I worked on Laravel Framework, Ebay Shops and Wordpress (plugins and theme development).

- **BeeGeek.net (March 2015 to September 2015):** It is E-Commerce Website. I worked here as a PHP Magento Developer and Linux Server Administrator.
- **Microsoft (2014):** 3 months Internship. Worked on different Microsoft Technologies including Windows Store Apps.
- **Nexa PPG (2015):** Automobile Paint Shades Software with complete PHP custom CMS.
- **Gol Technologies (January 2015 to February 2015):** PHP Internship. Worked on different PHP frameworks and Web Technologies.
- **Air University (2014-2015):** Windows Store Apps Workshop Demonstrator
- **Play It Production Islamabad (2014):** Windows Store Apps Development.
- **Oxford Public High School (PHP CMS Portal) (2013):** <http://oxfordschool.edu.pk>
- **Daisyland Public School (PHP CMS Portal) (2012-2013):** <http://daisyland.edu.pk>

### **PROJECTS:** (<https://github.com/gamingumar>)

As a passionate programmer I am actively working on different projects. Some of them are listed here, and my other contributions can be found in my github profile.

- **Fitness Tracker React Native:** App uses Samsung Health, Apple Health Kit and Google Fit integration to display user fitness data from different sources.
- **Online Video Downloader, Converter and VPN:** Developed a portal using PHP Laravel to download and convert videos from websites like YouTube and dailymotion and convert those videos to different formats. Developed Custom VPN in **AWS Cloud** so user can download geo restricted videos. Also have functionality to upload and convert video to different audio and video formats.
- **JamatTime.com:** React App with Laravel backend for Prayer timing.
- **OpenStack Hadoop Cloud Benchmarking:** Developed a web based platform that allow users to Benchmark Hadoop Cloud and visualize the results. It is based on **OpenStack, Hadoop, PHP, C++, Bootstrap, Multiple Linux Server VMs & VirtualBox**. You can check out the demo at <https://www.facebook.com/BenchmarkOpenStackHadoopCloud/>
- **Gamer Desk** Windows Store app to Create PC Games Library, Launch and Track Gameplay Time and get information about them automatically.
- **E Reminder** Windows Phone App that reminds users of Movies, TV shows or games that they want to watch or play, and display brief information about them.
- **Diplomatic Enclave (2015):** Linux Server troubleshooting and PHP Website Deployment.
- Hospital Management System Website in JSPs and Java Servlets. Completely implemented with MVC concepts.
- Developed Multithreaded Chat Room Application in C#.
- Made Tutorial of WEKA to run different Data Mining Algorithms
- Developed C# Application to Hide Image within Image which includes Encryption and Decryption of Image using Image Processing Concepts.
- Property Rental System Website using PHP with MYSQL and JavaScript.
- Solved 8 Queen Problem using Genetic Programming in C# with the help of Artificial Intelligence.
- Multilevel Feedback Queue Scheduling Algorithm Simulation using C++. Queues include Round Robin and FCFS.
- Contiguous Memory Allocation Simulation using C++. It is simulation of Variable size partitioning of Memory Management using First-Fit and Best-Fit Algorithm to allocate memory to processes.

- Matrix Multiplication with OpenCL using Direct and Optimized methods of GPU Programming in JOCL environment.
- PAC-MAN game using C++
- ATM Transaction System simulation using C++

### Concepts:

- Web & Mobile Software Engineering
- **MVC** and **Redux** Flux Architecture
- Linux Server Administration & Deployment
- E Commerce Frameworks
- Relational Database Designing
- OpenStack Cloud Architecture
- Hadoop Cluster
- Computer Communication & Networks
- Graphics Programming
- Cache, Memory and Disk Storage
- Data Science, Data Warehousing & Data Mining
- Digital Image Processing Concepts
- Data structures
- Object Oriented Programming
- Operating Systems
- Theory of Automata
- Computer Architecture
- Assembly Languages
- Data Parallel Programming
- Heterogeneous Computing

I am eager to learn, and passionate about everything related software. I am always looking forward to challenge myself to solve most demanding problems using latest technologies and accomplish them on time. I am capable of taking responsibility of every stage of software development lifecycle from documentation and planning to development and deployment. Technology and Languages are just a tool to me to develop awesome products, your company will definitely benefit from my experience in variety of technologies.

### INTERESTS:

- PC Gaming
- Upgrading my Gaming PC
- Software Research
- Reading Writing Blogs about Latest Hardware and Software Technologies
- Martial Arts
- Movies, Seasons
- Hiking, Travel

### Ref:

<https://github.com/gamingumar>

<https://expo.io/@gamingumar>

<http://whilegeek.com>

<http://umaraamer.com>

<http://whilegeek.com/umar-cv.pdf>

<https://twitter.com/UmarCloud>

<https://facebook.com/WhileGeek>

<https://facebook.com/gamingumar>