

# AHMAD LUQMAN

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## EDUCATION

**GIK Institute** Topi, Pakistan • Bachelor of Science in Computer Systems Engineering, 2003

• Selected Coursework:

**Computer Science** Unix Programming · Data Structures · Automata & Computation · Computer System Fundamentals · Computer Networks · Operating Systems · Algorithms · Object Oriented Systems · Image Processing · Artificial Intelligence · Databases

**Mathematics** Calculus · Differential Equations · Discrete Mathematics · Numerical Analysis

**MOOC Courses** Udacity, Edx, Coursera • 2013 - To date

• Selected Coursework:

**Software Engineering for Software as a Service** · Ruby on Rails Heroku Agile Development

**CS184.1x Foundation of Computer Graphics - Nov 2013** OpenGL C++

**Startup Engineering - June 2013** HTML CSS Javascript NodeJs on AWS

**Introduction to Data Science - June 2013** SQL NoSQL Map Reduce Machine Learning

**MITx: 15.390x Entrepreneurship 101: Who is your customer? - May 2014**

**Stanford University - Algorithms: Design and Analysis, Part 1 - July 2014**

**React Nanodegree program - May 2019** React Redux ReactNative

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## WORK HISTORY

**LMKR, Islamabad** (March 2011 - To date)

***Development Lead Platform, R&D***

- Leading a Architecture and Configuration Management team responsible for setting up CI and daily builds and making desktop installers available to the respective teams.
- Job responsibilities include developing and architecting application, mentoring developers, doing code reviews, conducting technical interviews for hiring.
- Currently working with 3d visualization team maintaining and developing a product using C#, WPF, SlimDX, DirectX 11 technologies.
- Contributed towards LMKR SDK for accessing Geographix database for well survey data using C# and EF 5.0 and also helped in Well Planner application integration with smartSECTION
- Worked with Geology team and developing & maintaining their products used for Oil & Gas geological log interpretation workflows, improved performance of applications by parallelizing User Defined Equations calculation for **PRIZM™** using C++ PPL
- Developed a XS2SS file format convertor utility in C#, WPF with MVVM architecture and more than 80% code coverage through unit tests.
- Worked on Volume Attributes team, a geophysical attributes calculator for seismic data interpretation in C# 4.0 utilizing TPL to parallelize processing. Also developed the UI in WPF.

**Bentley Systems, inc. (Trivor Software was acquired by Bentley Systems, inc. in May 2007.),**

**Islamabad** (May 2007 - Feb 2011)

***Senior Software Engineer/Team Lead***

- Worked on AutoPlant Core team and developed an offline ProjectWise (Bentley DMS product) project support for AutoPlant projects using C++/VB for legacy code and .Net C# for newer modules. This was part of a Bentley AutoPlant XM 8.9.4 release. (March 2007 – August 2007)
- Worked on Platform Technology development group developing core Engineering Content Framework (ECFramework) used across multiple Bentley products being developed in .Net C# and Windows Forms and contributed towards one major and two minor releases of V8i. (September 2007 - Feb 2011)
- Developed & maintained Bentley Class Editor (Schema editing tool) for defining and editing schemas used across different applications across all Bentley verticals.
- Designed & developed Engineering Units, ECSchema localization & ECSchema Evolution for the ECFramework.
- Worked as a scrum master of one of team
- Introduced Software Engineering Line Engineering concept in the organization

**Trivor Software(Exclusive Contractors for Bentley Systems, inc.), Islamabad** (May 2005 - May 2007)

***MIS Manager***

- Worked as a MIS Manager (Manager Management of Information Systems) in Trivor Software for six months.
- Worked as a Software Engineer and successfully completed and developed an Engineering based project 'BC PumpPlots' for Brown and Caldwell. BC PumpPlots is an analysis tool for designing Pumping stations. (May 2005 – Feb 2007)

**LMKR, IT Services, Islamabad** (May 2004 - April 2005)

**System Administrator**

- Responsibility includes management of different services on Linux and Windows environment.
- Common tasks include management of Active Directory, FTP, RAS, DHCP, Citrix Server, squid proxy, DNS and backup of servers.
- Worked on the design and implementation of the new services like GPOs, SMS, SFU, DHCP and DFS.
- Also worked on documenting the policies and procedures of the department for ISO-9000 Certification.

**GIK Institute, Faculty of Electronic Engineering, Topi** (May 2003 - May 2004)

**Electronic Engineer**

- Assisted Image processing course, Conducted labs for Digital logic design, Computer networks and Image processing courses.
- Developed an application in C++ for reading data from a centrifugal machine in Materials Engineering Faculty's lab from its COM Serial port and saving it in .csv file so that data could be plotted in Microsoft Excel.
- As a system administrator was responsible for maintaining the network of the faculty and computer labs.
- Assisted a graduate student in his thesis work for developing linux kernel modules for system call based anomaly intrusion detection system

**Advanced Engineering Research Organization, Islamabad** (summer 2002)

**Internee**

- Worked on video tracking system project using C++ and OpenGL 1.1 and was continued as a final year project for bachelors degree
- Configured a redhat based linux server running sendmail, squid based proxy and software router

**Advanced Engineering Research Organization, Islamabad** (summer 2001)

**Internee**

- Developed and ported a framework for secure VOIP solution to PC on which different encryption protocols and audio encoding protocols could be tested.

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**SKILLS**

- Proficiency in software development in C/C++, C#
- Familiarity with Windows Form, WPF, MVVM, TDD, Unit Tests, React
- Familiarity with Java, VB.Net, PL/SQL, Python, Javascript, Typescript
- Familiarity with DirectX 11, HLSL, OpenGL
- Familiarity with Regular Expressions, Threads, Sockets, SQL, L<sup>A</sup>T<sub>E</sub>X