

# AHMAD LUQMAN

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• <https://github.com/ahmad-luqman/>

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## ABOUT

A software architect with passion of building great products by building culture of continuous improvement in people, process and products to enable continuous delivery of values to end users. I have worked as a software engineer with 2 decades of experience developing software for engineering and oil & gas geoscience industries mostly on Microsoft windows platform.

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## WORK HISTORY

### **Breu Inc., Remote Work** (Dec 2020 - To date)

#### ***VP of Engineering***

- Responsible for all aspects of software development and engineering delivery
- Architect and develop a product around [TWAMP protocol](#) with clients written in Rust and backend in Python Django hosted as containers on AWS with Angular

### **LMKR, Islamabad** (March 2011 - Nov 2019)

#### ***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<sup>TM</sup>](#) 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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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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TALKS & GUEST LECTURES

- [Open Source tools & Devops](#) at [Open Source Summit 2019](#) on 3rd October, 2019 at FAST-NU, Islamabad
- [State of DevOps](#) at [IEEE INMIC 2019](#) on 30th November, 2019 at FAST-NU, Islamabad
- [Infrastructure as Code](#) at [DevOps Day with Testers](#) on 8th February, 2020 at VisionX Technologies, Islamabad
- [DevOps Introduction](#) on March 2, 2020 at NUST SEECS, Islamabad
- [Infrastructure as Code](#) as guest lecture for Cloud Computing course on March 23, 2020 at FAST-NU, Islamabad

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OPENSOURCE CONTRIBUTIONS

- Member of [.Net Foundation](#)
- [Contributed](#) to dotnet cli project which is now merged to dotnet sdk [monorepo](#)
- Minor contributions to [Tellform](#) and [ThisDevelopersLife-Transcripts](#) projects

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SKILLS

- Proficiency in software development in C/C++, C#, Python and Rust
- Familiarity with Windows Form, WPF, MVVM, TDD, Unit Tests, React
- Familiarity with Java, VB.Net, PL/SQL, Python, Javascript, Typescript,  $\LaTeX$
- Experience in Dockers, Kubernetes and Terraform
- Familiarity with Git, TFS, SVN
- Familiarity with DirectX 11, HLSL, OpenGL
- Familiarity with AWS, Azure and ELK Stack