

AHMAD LUQMAN

Islamabad, Pakistan

+92-300-5560154 • ahmad.luqman@gmail.com • <http://www.linkedin.com/in/ahmadluqman>
• <https://github.com/ahmad-luqman/> • <https://stackoverflow.com/users/713683/luqi>

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 softwares.

WORK HISTORY

CreditPer, Islamabad (Feb 2022 - Jan 2023)

Head Of Engineering

- Responsible for hiring, managing engineering of 15+ engineering team comprising of Full Stack, Frontend, QA, Data Science, Project Management and Product Management.
- Handling solution architecture by monitoring and improving the performance of the system by observing the logs and performance monitoring tools.
- Technologies used are React, Nodejs, React Native and Python deployed on AWS.

EMPG labs, Islamabad (July 2020 - Dec 2021)

Software Architect

- Responsible for engineering execution of softwares for CRM related to real estate transactional business.
- Responsible for managing team of 38 engineers and involved in hiring onboarding process and scaling from 10 to 38 team count
- Technologies used are Angular, Nodejs, React Native deployed on AWS.

Breu Inc., Remote Work (Dec 2019 - June 2020)

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
- Technologies used are Angular, Python, Django, AWS, Terraform, Rust

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™](#) 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.

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

SKILLS

- Programming Languages: C/C++, C#, Javascript, Typescript, Python, Rust, \LaTeX
- Frameworks: WPF, WPF, Django, Express, NestJS, React, Angular
- Databases: MySQL, Redis, PostgreSQL, MongoDB, SQL Server, Sybase SQL Anywhere
- DirectX 11, HLSL, OpenGL
- CI/CD: Azure DevOps, Gitlab CI/CD, Circle CI, Github Actions, ArgoCD
- AWS: EC2, S3, Route53, Cloudfront, IAM, VPC, RDS, Cloudwatch, Lambda
- Containers, Kubernetes, EKS, Helm
- Observability: Cloudwatch, Kibana, NewRelic, Sentry, Firebase
- IAAC: Terraform, Chef, Puppet, Vagrant

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

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
- Top 20% on [stackoverflow](#)