
BILAL HAIDER

Lahore, Punjab • +92 3224429246 • bilalhaider@live.com

[in linkedin.com/in/bilal-haider-a6635352/](https://www.linkedin.com/in/bilal-haider-a6635352/)



Sr. Software Engineer - iOS | Android | Machine Learning

Summary

Sr. software engineer with

- Over 10 year of engineering experience including server side applications, mobile apps, Artificial intelligence, blockchain, Cloud.
- 8+ years developing on iOS, Android, cross platform apps.
- Lead Mobile app dept with hands-on experience on iOS/Android/Cross platform
- Recent work on building custom LLM like chat-gpt, suggestive systems, data pipelines and processing.
- Prompt engineering, OpenAI integrations.
- hands-on experience with building, leading teams, client communication and pre-sales.
- always up with learning and implementing cutting edge technologies and processes.

Technologies:

App based: IOT, BLE, OpenCV, firebase, machine learning, games, cocos2d-x, Unity3D, UI/UX, hardware integrations, security, monitoring and analytics tools

Machine Learning based: Tabular data with ERP, Image processing, LLM like chat-gpt, suggestive system like amazon, inventory forecasting, Profiler

Data: BigQuery, kafka, pulsar, batch processing, streaming, SQL, no SQL

Web based: Django, node, AWS, GCP, Azure, PHP frameworks, Big data, AirFlow

Cloud: Serverless, IAC, PaaS, IaaS, SaaS

Architecture: Security, scalability, micro service architecture, design principals

Cutting edge domains: Blockchain, machine learning, IOT, Big Data

Management : Git, Jira, Agile project management, team management, client communication

Architecture projects:

LLM for IP data based communication (custom LLM like chat-gpt for IP data)

KSolar (iOS/Android app, backend for IOT application of K-Electric)

Bridge3 (MiddleWare for Blockchain)

Inventory Planner (ML based system)

Profiler (ML based system)

Recent Assessments:

Programmed ERC-721 NFT: <https://shorturl.at/bqABN>

IOS Development (Codility) score: 97%

Swift: in top 5% on LinkedIn assessment for Swift (iOS)

OOP: in top 30% on LinkedIn assessment

iOS and Swift: TestDome public test certified

Always looking Forward to further expand my knowledge in frontiers of engineering cutting edge Software Systems.

Work experience

2022-10 - present	<p>Sr Software Engineer <i>Nax Group (via increw)</i></p> <p>Working as Sr Software engineer in R&D team, where roles including architecting and building solutions to business problems using latest technologies, had experience to work on blockchain, LLM (Large Language Models) based solutions, also did in depth hands-on on micro-service architecture, security, deployment and scalability.</p>
2020-10 - 2022-09	<p>Assoc. Software Architect <i>Code Ninja inc</i></p> <p>Worked at Code Ninja as Assoc Software Architect, Lead Mobile app, had the experience to build, lead, hands-on experience in mobile apps, cloud, Artificial intelligence, Machine Learning and Blockchain for medium to large enterprises.</p>
2019-04 - 2020-09	<p>Sr. Mobile app developer <i>HashTag Binary</i></p> <p>Worked as Sr. Mobile app developer (iOS) at HashTag Binary from April 2019 till Sep 2020, where I developed iOS app for their lead Project.</p>
2018-01 - 2019-03	<p>Lead Mobile App developer <i>SquareCube creations</i></p> <p>Worked at Square cube creation for more than a year as Lead Mobile app developer, where my task was to oversee and develop apps for android and iOS.</p>
2016-02 - 2017-12	<p>Lead Mobile App developer <i>BinaryForte</i></p> <p>Working as Lead Mobile app developer at BinaryForte for about 2 years now.</p>
2014-06 - 2016-01	<p>Mobile app Developer <i>Pyxel pvt Ltd</i></p> <p>I worked at Pyxel pvt Ltd as mobile app developer for about 1.5 years where I developed e-challan application for National Highway and Motorway Police and above 10 other applications, my responsibilities include creating apps from scratch and management of current android and ios apps and Unity games.</p>
2013-01 - 2014-12	<p>Student Partner <i>Microsoft</i></p> <p>Microsoft I have also been Microsoft Student Partner in 2014.</p>
2013-12 - 2014-05	<p>cocos2d-x developer <i>Android</i></p> <p>Ubooly As mobile application developer my responsibilities includes development of application for Android system and cross platform games using cocos2d-x.</p>
2013-01 - 2013-12	<p>PHP developer <i>Vendevo</i></p> <p>Worked at Vendevo for about a year as PHP developer for Wordpress, CodeIgniter and core PHP</p>

2012-06 - 2012-12	Mobile game Developer Remote I worked as android/cocos2d-x game developer where my major applications were <ul style="list-style-type: none"> • 4 pics 1 word • Bubble blast • Tom and Jerry coloring app [1] [1] https://play.google.com/store/apps/details?id=com.funpalace.ColoringFunTomAndJerry
2012-06 - 2012-12	Desktop/Web Freelancer <i>Giwes.com</i> Remote I did two projects as Remote developer in Pakistan <ol style="list-style-type: none"> 1) Greenwich management System 2) Giwes.com
2011-01 - 2011-08	PHP Developer <i>eWebCraft</i> My responsibilities included development of custom themes, plugins for wordpress.

Education

2011-09 - 2015-06	Bachelor of Computer Science <i>The University Of Lahore</i> Sep 2011 - Jun 2015 Bachelor of Computer Science The University Of Lahore
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Skills

Mobile Applications: IOS, Android over 8 years experience	AI: OpenCV, Machine Learning, LLM, OpenAI experience on legacy as well cutting edge methodologies
Cloud: Terraform: AWS, GCP, Azure, architecture	Mobile Applications: Flutter, React native
Mobile Applications: Phonegap, ionic	Mobile Applications: Cordova, Xamarin
Blockchain: CryptoCurrency, dApps, NFT	Language: Swift, Objective-c, Java, Kotlin, Python, Javascript, Solidity, PHP
Framework: Node js, nest js, hapi js, express, Django	Tools: Scikit-learn, tensorflow, AirFlow
Github	CI/CD
Management: Agile Methodology, Scrum, Kanban	Management: Project Management
Management: Technical Management, Team Lead	Management: Client Communication
Management: Pre Sales	

Here are few applications I had opportunity to architect or build in career

Architecture:

1) Large Language Model (LLM)

While working at Nax Group, had the need to build an inhouse LLM like chat-gpt with answer from proprietary data, using technique of vector db and custom open source LLM and fine tuned it on our data using re-training and PEFT.

2) KSolar

Had the opportunity to be involved in architecture design and leading project of KSolar, a newly established subsidiary of K-Electric, a multi million dollar company providing energy.

5 teams from 3 countries were involved in project, and our team had been at control role, as their consumer interface was a mobile application to present IOT and SAP ERP stats.

Had been involved at levels of client communication, architecture, problem resolution and delivery of project.

3) Bridge3

Bridge3 is a middleware for blockchain that different multi million dollar companies use to communicate with data persistence and blockchain based systems.

Had been involved in designing architecture and PoC for this that focus on reliable data processing, role segregation, security and scalability of system including micro services build on different architecture.

4) Inventory Planner

It is an ML based application for which I had the pleasure of designing architecture and leading teams for over a year which include optimal inventory storage and delivery from multiple warehouses and different teams using Big data and machine learning.

5) Profiler

It is another ML based application I had pleasure to design and implement, which use BigQuery and data ingestion pipelines to collect data on users and create a profile using machine learning

Developed

- 1) K-Solar (IOT application) [1]
- 2) Inventory Planner (ML application)
- 3) Eclair
- 4) e-Challan
- 5) Lens (NLP, ML application)
- 6) Tipee (IOT application)
- 7) Oldify (Computer Vision application)
- 8) My Taxi
- 9) Clean Master
- 10) Talking Tom
- 11) Health app
- 12) Tom and Jerry coloring app
- 13) Expense Manager
- 14) Tenancy Agreement [2]
- 15) Riyaz ul Quran [3]
- 16) Payaim [4]
- 17) Explore your subconscious [5]
- 18) Free Fall (Unity3D)
- 19) Makeup Saloon (Cocos2d-x)
- 20) Nail Spa (Cocos2d-x)

21) Bottle shot (Cocos2d-x)

[1] <https://play.google.com/store/apps/details?id=com.ksolar.kslive>

[2] <https://play.google.com/store/apps/details?id=com.tenantfind.tenancyagreement>

[3] <https://itunes.apple.com/us/app/riyaz-ul-quran/id1205159602>

[4] <https://itunes.apple.com/us/app/payaim-app/id1066656734>

[5] <https://itunes.apple.com/us/app/explore-your-subconscious/id1393901832>

Languages

Urdu

English

Certifications

- Software Architecture: Breaking a Monolith into Microservices (Linkedin Learning)
- Microsoft Student Partner
- IOS Development (Codility) score: 97%
- Swift: in top 5% on LinkedIn assessment for Swift (iOS)
- OOP: in top 30% on LinkedIn assessment
- iOS and Swift: TestDome public test certified

Associations

- I was the President of Innovative Entrepreneurial Society (IES), a society (President)

