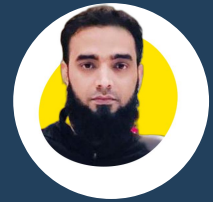# HAMMAD UL-HAQ ABBASI

Software Architect

📞 +92 321 2947101 @ cse.hammad@gmail.com
📍 Pakistan

SUMMARY

Experienced Software Architect with a strong background in developing enterprise-grade solutions, cloud-native applications, and web/mobile development. Proven ability to oversee and manage the entire development lifecycle, ensuring successful project delivery.

- Lead cross-functional teams while actively contributing to hands-on development efforts.
- Manage end-to-end project and product lifecycles, including requirements gathering, technical design, development oversight, and successful deployment, ensuring alignment with business objectives and customer needs.
- Design and implemented high-level software architectures, providing developers with foundational frameworks, project guidelines, and core modules, promoting code reusability, scalability, and maintainability.
- Conduct comprehensive technical analysis, assessing project requirements, system constraints, and trade-offs to define optimal architectures and guide development teams in their implementation.
- Collaborate closely with stakeholders, including product managers, development teams, and business stakeholders, to define product roadmaps, prioritize features, and ensure seamless integration of architecture and product vision.
- Founded and launched startups, including WappGPT and FeedbackRig, taking the lead in ideation, market research, product development, and business strategy, resulting in successful market entry and growth.
- Published articles on Medium, sharing insights, best practices, and thought leadership in software architecture, product management, and entrepreneurship, attracting a wide readership and engaging with the tech community.
- Managed partner programs, establishing strategic alliances and integrations with key industry partners such as Trello, while ensuring compliance with regulatory frameworks such as GDPR and HIPAA for data privacy and security.
- Implemented robust web security measures, ensuring the confidentiality, integrity, and availability of web applications and systems. Conducted vulnerability assessments, implemented secure coding practices, and deployed measures such as encryption, access controls, and web application firewalls (WAFs) to mitigate security risks and protect against cyber threats.

EXPERIENCE

Technical Lead
02/2022 - 04/2023

Point Pickup Technologies
New York, U.S (Remote)

PPUP provides last-mile delivery services for America's top retailers with complete control over their customers' experiences.

- Led a team of engineers to build, optimize and scale their last-mile delivery platform for clients like **Walmart, Kroger, Dollar General.**
- Implemented improvements to their existing platform and infrastructure - resulting in fulfillment of 250k orders per day becoming **1M+** orders per day.
- Revamped core microservices using the latest technologies, such as .NET7 and Azure PaaS services, which resulted in an increase in delivery rate from **92% to 97%**.
- Redesigned proximity search microservices (similar to Uber's Driver Search), which resulted in a reduction in cancellations from **11% to 4%.**
- Assisted the mobile team in optimizing the In-Store shopping flow and developing features such as Smart Push Notifications, In-App Chat in their E2E Fulfillment app.
- Worked directly with partners, including HyperTrack, OneSignal, Aerospike, and Confluent, to build and integrate services such as real-time location tracking, web/mobile push notifications, multi-model NoSQL databases, and messaging/stream processing.

🔗 https://www.pointpickup.com/

FIND ME ONLINE

- ⊘ **WhatsApp**
  https://wa.me/923212947101

- in **LinkedIn**
  https://www.linkedin.com/in/hammadabbasi/

- M **Medium**
  https://hammadabbasi.com/

- ⊙ **GitHub**
  https://github.com/csehammad

ACHIVEMENTS

- ⭐ Founder: WappGPT
  Personal AI Assistant On WhatsApp. https://www.wappgpt.com/

- ⭐ Co-Founder: FeedbackRig
  AI Powered Customer Feedback Platform. https://feedbackrig.com/

PROJECTS

E2E Fulfillment Platform

E2E platform enables retailers to integrate Point Pickup's in-store shopping, delivery, pickup, last mile delivery, and dispatch last mile delivery options into their own e-commerce platforms, offering customers a convenient and seamless grocery shopping and fulfillment experience.

Real-time Driver Search Services:

Built a geospatial search-enabled microservices backend for last mile delivery gig worker matching. It efficiently matches available workers with delivery requests based on their proximity to the desired locations. The system considers driver real-time locations, profiles and preferences, ensuring accurate and optimized worker allocation.

Containerize Identity Server

Single Sign On Solution for Aspose Pty Ltd serving 1.6M users.

http://id.containerize.com/

EXPERIENCE

Software Architect
Aspose

04/2011 - 12/2021

Sydney, Australia (Remote)

The Aspose platform offers a low code File Format API which is being used by more than 80% of Fortune 100 companies such as Microsoft, Google (Google Sheets), the United Nations, Atlassian, IBM and many others.

- Build and Launch highly Scalable API Backend for their various file formats components such as Aspose.Words (to manipulate word documents) and Aspose.Cells Excel spreadsheet.
- Build and launch the backend for Aspose.app to support online file processing for PDF, Word, Excel, PowerPoint, Visio, Project, and 3D Formats.
- Optimize backend and frontend apps to improve traffic from **100k to 5M** visits per month..
- Develop and launch the Id.Containerize.com app using IdentityServer4 in order to provide a single sign-on experience for all of their customers across all of their apps, such as a Cloud Dashboard, Support Forums, Help Desk, Status Page, and Alerts. Developed API Monitoring tools to alert customers for potential maintenance and downtime.
- Developed tools and scripts to assist and automate the migration of **1M users** and **4M+ posts** from their legacy system to the new support forum.
- Built CI/CD pipelines using AWS, implemented automated testing using SonarQube, and improved the AWS Cloud Infrastructure to support **100k requests/minute** to **1M/requests per minute.**

🔗 https://www.aspose.com/

Team Lead
THK Solutions Ltd

05/2010 - 03/2011

Karachi, Pakistan

THK Solutions provide financial solutions and ERP to clients such as HBL Pakistan, Unilever, Pakistan Engineering Council.

- Led a Team of 6 Developers to Develop ERP of PEC (Pakistan Engineering Council).
- Built Various Modules, Frameworks, Processes, CI/CD and Integration pipelines.

🔗 https://www.linkedin.com/company/thk-solutions-pvt-limited/

SKILLS

Product Management

Requirements definition, market research, Agile methodologies including Scrum, MVP, Lean Startup, and Design Thinking methodologies, utilizing tools such as Jira, Trello, Monday.com, Miro, and Confluence for project management.

Software Architecture

Microsoft Stack (C#, .NET Core), Node.js (NestJS, RushJS), AWS and Azure Cloud Services, serverless architecture, micro-frontends (React, Angular, Knockout.js, Vue), caching frameworks (Amazon ElastiCache, Azure Redis), CI/CD (Jenkins, TeamCity, Azure DevOps, Github Actions, Gitlab Pipelines), messaging systems (Apache Kafka, Amazon MSK, RabbitMQ, Azure Event Hub, Service Bus), big data analytics (Azure Data Lake), AI/ML (Tensor Flow, MS Cognitive Service, ML.NET).

Tools

Jira, Confluence, Slack, Trello, Miro, Visio, Balsamiq, Google Analytics, Visual Studio, VS Code, Android Studio.

Mobile App Development:

Java, Flutter, Xamarin

Publications

→ A Practical Guide to Implement Twin Cipher Encryption

→ A Deep Dive into AI Safety and Ethics: Utilizing OpenAI's Moderation APIs

→ Build High Performant Microservices using gRPC and .NET 6

→ Building Multi-Tenant SaaS App for an Unknown Scale

→ A Beginner's Guide to Machine Learning using ML.NET in .NET5

→ ChatGPT and GPT-3: The Future of Work and Automation

PROJECTS

CoastWise Monitoring System

An IoT based centralized, solution for coastal safety stakeholders in New South Wales(Australia) . Enables accurate data collection on site using Drones, Satellite, and other devices. Provides an operational dashboard for real-time monitoring of site usage and incidents. Integrates with a Data Analytics Hub for in-depth analysis, risk modeling, and reporting

https://sls.com.au/

LANGUAGES

English   Proficient   ●●●●○

EDUCATION

Computer Systems B.E
Mehran University

12/2004 - 12/2009
- Bachelor's degree in Computer Systems Engineering (B.E) with a major in AI, Big Data, and Computer Vision.

CERTIFICATION

Microsoft Certified Technology Specialist .net Framework 4.0

MCTS ID:8051976

REFERENCES

Jagdish Repaswal
CTO, Point Pickup Technologies

Chris Schoenfeld
VP Engineering, Point Pickup Technologies

Salman Sarfraz
President, Aspose Pty Ltd (Pakistan)

Javid Calcati
Medical Director at Wellnorth Medical