Maliha Gibran
Principal Software Engineer

Profile

Highly accomplished and visionary Principal Architect with over 11 years of experience in leading and delivering innovative architectural solutions. Proven expertise in designing and implementing complex systems across diverse industries. Adept at aligning technology strategies with business objectives to drive growth and operational efficiency. Possess exceptional leadership and communication skills, with a track record of successfully leading cross-functional teams and collaborating with stakeholders at all levels.

Skills

Programming & Scripting Languages	Typescript, Angular, Node JS, JavaScript, .Net, PHP
Frameworks	Visual Studio .NET , Visual Studio Code, Code ignitor, Laravel
Development Tools & IDEs	NetBeans, Eclipse PDT, WebPack, VS-CODE
Database Management Systems	SQL Server, MYSQL,
Cloud-Based Systems [APIs & Development]	Private Cloud and Infrastructure, AWS, EC2, Google API, Facebook API,
Configuration, Build, and Project Management Tools	GitHub, SVN, Jira, Basecamp

Education

National University of Computer and Emerging Sciences, FAST-NU - Master in Software Engineering
July 2008 – July 2010

Projects

E-Stamp (Stamp duty collection)

Developed the system for Stamp Duty collection using MVC Architecture and as .Net backend and Angular and Kendo UI frontend. This includes Integration with Multibank API and their Cash Management Systems.

Challenge:
The main challenge of the e-Stamping system is to prevent paper and process-related fraudulent practices, leakage of government revenues, and store information in electronic form and build a central database to make ease of the verification process.

Solution:
Built using the digital solution to provide E-Stamp paper where the user generates digital challan and gets E-Stamp paper electronically, a solution built on modern MVC principles (Micro service-based, API-first, Integration with E-pay).

Tech Stack:
.Net, Visual Studio, Angular, Node JS, SQL Server.

Responsibilities:

• Development and Design of Code Architecture implementing microservices.
• Develop and manipulate the Front end in Angular and Typescript.
• Designed and developed integration with other systems.
• Deployment using Private Cloud.

Flood Monitoring System
A system where the monitoring of flood-affected areas is reported and analytical monitoring through email, graphs representation, and SMS alerts. Integration with different government departments to work

Challenge:
Development of system and collection of data in a very short deadline and implementation throughout the province. Generation of electronic responses to complaints of citizens and forwarding them to the corresponding department.

Solution:
Gathered the Data from different government departments. Provide the Hub of Connection portal that can work under one section to provide combined effort. Gave the solution of the Main Complaint

portal for all departments so that citizen complaints are directed and automated to their respective departments on the basis of the category defined by the user.

Tech Stack:
Code ignitor MVC, MySQL, SMS Gateway, Google API

Full Stack Developer

- Responsibility to design system architecture and DB Model.
- Admin Panel for motoring and report view environment.
- Google API integration to detect the flood level and the location of the complaint initiator.
- SMS Alerts to the corresponding departments to respond quickly to flood affected.
- Integrated middleware to validate/ verify business rules.
- The taking task was configured on the background tier having minimal impact on the web server.
- Service repository architecture implemented.
- ETL for previous data.

Punjab Crime
Developed the system for Punjab Police using MVC Architecture of PHP codeigniter. This includes Integration with multi-departments of Crime Branch using their APIs and Google Maps to track the locations and heat Maps to show the intensity of Crimes.

Challenge:
The main challenge of the system is to help out the department by providing the analytical data to track the crime areas and timings of the crimes taking place in the division and managing the dashboard to graphically represent the overall situation of the district and Division.
Solution:
   Provide a digital system using the Framework of Codeignitor as a base with that integration with Google API, Google Map Heat Fusion Manipulation, and extensive application of High Charts to Visualize the data representation at a higher level to their high level management.

Tech Stack:
PHP, MY SQL , Codeigniter,Fusion Tables heat maps, highcharts map

Responsibilities:

- Development and Design of Code Architecture implementing microservices.
- Develop and manipulate the Front end in PHP and Implementation of Google API and High Charts.
- Designed and developed integration with other systems.
- Deployment using Private Cloud.

EXPERIENCE (11 Years)

PITB, Lahore-*Principal Software Engineer*

Sep 2014 - Present

- Manage teams of developers and Report to the Director for the overall performance of the dev department.
- Carry out code reviews to ensure that the best practices are followed.
- Worked with stakeholders for architecture and system design.
- Develop and manipulate the Front end in Angular and Typescript.
- Designed and developed integration with other systems.
- Trouble-shot and fixed problems through customer requests, and QA.
- Applied fixes and enhancements to SQL scripts through SQL Server.

E2E solution provider - *Software Engineer*

April 2012 – December 2013

- Working closely with the client with requirement gathering and analysis
- Worked as a Facebook developer. Developed and Deployed major Facebook applications.
- Bug fixing and maintaining the data integrity.
- Worked in Scrum / Agile Development environment.
- Used Team Foundation Server for Source Code Control, project-related document
- Sharing and team collaboration.

Organic Spread Media - *Software Engineer*

April 2010 – April 2012

- Worked as Requirement Engineer. Developing SOW documents. Requirement documentation, Architecture/Design documentation, and User documentation.

- Moved to the web development section. Worked on Facebook application and other core PHP web-based