

Bassam Banawi

Software Engineering Management

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Bassam's AI Assistant

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EXPERIENCE

Programmer Analyst – Healthcare Systems

MNGHA - Ministry of National Guard Health Affairs

Feb 2025 – Present Taif, SA (Full-time)

- Maintained and optimized radiology subsystems (PACS, Centricity, CHA Anesthesia) to ensure efficient imaging and data management.
- Collaborated with clinicians, radiologists, and stakeholders to define requirements for new features and system enhancements.
- Coordinated and followed up with vendors (e.g., STC, General Electric) to implement updates or resolve complex issues.

IT Project Engineer & Document Control

DM Enterprises

Jun 2024 – Present Washington, DC, US (Contractor)

- Developed and maintained SharePoint solutions, Power Automate flows, and Power Apps integrations to streamline project workflows for DC Water.
- Automated agreement workflows using DocuSign and Power Automate—including post-signature processes—and tested DocuSign APIs with Postman to ensure end-to-end reliability.
- Installed and configured Oracle Unifier (on-premise), ensuring proper system setup and seamless integration with existing infrastructure.

Information Technology Manager

IBH - Insurance Broker House

Mar 2022 – Sep 2022 Jeddah, SA (Full-time)

- Projects IT lead, including the design and deployment of new IT systems and services.
- Manage and report on the allocation of the IT budget to the Head of Transformation and Shared Services.
- Monitor performance of information technology systems, perform cost/benefit analyses of IT projects, prepare and present analyses to the top management, and make recommendations for improving the IT infrastructure.
- Lead in the development of the aggregator software to be completed in 2022.
- Controlling by using Cyber security tools and following up on it systematically.

Software Engineering

Applications Technology Group Inc (ATGWork)

Oct 2020 – Nov 2021 Atlanta, GA, US (Full-time)

- Developed Williams-Sonoma, Inc.'s API-based order management system that integrated with existing angular projects.
- Build REST APIs in the backend using Javax-rs to expose part inventory and pricing structures from the database to B2B customers.
- Build a Micro Front-end web application that consumes the APIs to dynamically show customer order tracking, and return Item information.
- Involved in working with JavaScript for form validations and designing interactive web pages.

Java Developer

CodeForce 360

Sep 2019 – Aug 2020 Alpharetta, GA, USA (Intern and Contract)

- Involved in building REST Services using Java and Spring Boot and documenting them using OpenAPI/Swagger.
- Involved with working with the front-end development and designing responsive web applications in Angular.
- Implanted JWT and persistentTokenRepository using Spring security.
- Worked with WebFlux, Spring Cloud Sleuth, and Zipkin.
- Deployed MicroServices on a private cloud foundry.

SUMMARY

- Around **5 years** of professional experience in the IT industry on Cross Platform.
- Experience in web application development using JEE frameworks like Spring Boot, Spring MVC, Angular, Spring Cloud, REST, MicroServices Architecture.
- Good knowledge in building RESTful Web Services using Spring Boot.
- Experience in implementing discovery servers and API gateways such as Zuul and Eureka servers.
- Hands-on experience in handling coming requests (load balancing) using Ribbon, Hystrix, and circuit breakers.
- Experience working with Rest-Template feign framework.
- Experience and understanding the messaging systems such as Apache Kafka, RabbitMQ, Zookeeper, and MQTT.
- Developed and deployed AI-powered chatbots using Python and Streamlit framework, leveraging state-of-the-art models from Hugging Face.
- Utilized vector databases like ChromaDB for efficient storage and retrieval of high-dimensional data in machine learning applications.
- Integrated Llama 2, Llama 3, and oLlama models for multi-modal AI applications, combining text and image processing capabilities.
- Developed conversational agents and chatbots using OpenAI GPT (Generative Pre-trained Transformer) models, including GPT-3.5.

EDUCATION

Master of Science & Engineering in Software Engineering

University of Minnesota Twin Cities

May 2024 GPA: **3.85/4.00**

Bachelor of Science in Computer Science

Clark Atlanta University

Dec 2019 GPA: **3.55/4.00**

API Developer

Official Payments

📅 Feb 2017 – Jan 2018

📍 Norcross, GA (Intern)

- Worked on official payments key Mobility project and built APIs for iOS and Android apps to interface and consume these APIs. Member of the configuration team for end users.
- Developed various reusable helper and utility classes using Java Beans with IntelliJ Idea editor.

PERSONAL PROJECTS

Home Monitoring System

- Focus on the functionality of communication between Raspberry Pi and Alexa using Amazon web services such as Amazon IoT Core, Amazon DynamoDB, and Lambda function, offering a simplistic interface for users. The core concept of the monitoring system is to utilize a Raspberry Pi 3 as the hub for the system. [Link](#)

iOS Backup Recovery

- Develop software analyzes the backup of iOS devices by looking into the “Manifest.db” SQLite database which contains hash lookup tables for each file in the backup. Create pictures, contact info, and pictures of contacts, text messages, and call history objects so that an output dictionary to store selected recovered files and an analysis report of the backup. [Link](#)

Phone Bill Application

- Used Google Web Toolkit for building and optimizing browser-based applications to create a phone bill web- application that receives and stores the phone call details from the user. The main goal was to use Java through GWT to build a front-end application.

Fun-Dishes

- Responsible for designing, coding, and modifying the existing site with clear navigation and user-friendly design using HTML, CSS, JavaScript, and NodeJs. In addition, Build and optimize Restful API for the admin page to have full control to add, delete, update. [Link](#)

SSO (Single Sign-On)

- Allow secure Web domains to exchange user authorization data using JSON web tokens library. It makes it easy for users to log into multiple applications in a specific browser session. Built an isolated web to receive the public key from another isolated system which will generate the public and private keys.

SKILLS

Languages: Java, python

Scripting languages: JavaScript, Typescript

Web-technologies: HTML, CSS, Bootstrap, JSON

Databases: MySQL, NoSQL

Frameworks: Spring Boot, Spring MVC, Spring Cloud, Hibernate, Netflix /Zuul Gateway, Feign Client

Cloud Services: Amazon DynamoDB, Amazon IoT Core, EC2

IDE: STS, IntelliJ, Visual Studio Code.

CI/CD Tools: GitHub, GitLab, Jenkins

LICENSES & CERTIFICATIONS

