AHTISHAM ALTAF

SOFTWARE ENGINEER (BACKEND)

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SUMMARY

Backend Java developer specializing in building scalable solutions for fintech, stock exchange, and IoT applications. Skilled in designing high-performance APIs, integrating complex systems, and creating secure backend architectures. Focused on delivering innovative and efficient software solutions.

PROFESSIONAL EXPERIENCE

BEDM Pvt LTD   **Mar 2023 - Present**

- Optimized an IoT system to handle a 5x increase in data flow, scaling from 20k to 100k data points per second, significantly improving system reliability and efficiency.
- Took ownership of a large-scale IoT project, leading enhancements, maintenance, and integration of new features, including developing APIs for third-party functionality
- Spearheaded the conversion of servlet calls to AJAX across a 100+ screen application to boost responsiveness and user experience while contributing to JasperReports-based reporting features.

I2C   **Jul 2022 - Mar 2023**

- Improved backend functionality and introduced new features, including a Kanban board, for the I2C Planner project to meet evolving team requirements.
- Contributed to the development and enhancement of the company's Salary and Attendance systems, addressing critical business needs.
- Took on a leadership role within five months, guiding the team and managing three key projects during a transitional period.

Softech Systems   **Sep 2020 - Jul 2022**

- Transitioned an SQL-based desktop application (Backconnect) to a Java web project using JSP and servlets, enhancing usability for stock exchange brokers.
- Built standalone Spring Boot APIs for integration with governing bodies such as NCPL, streamlining external communications.
- Led the Backconnect Web project for six months, managing development, bug fixes, and backend server enhancements to improve order placement reliability.

PROJECTS

I4F   **BEDM**

Technologies Used: Core JSP, Java Servlets, Sockets, InfluxDB, PostgreSQL, JasperReports, Bootstrap, AJAXAutomotive Technology.
Description:
I4F is a web-based project designed to handle real-time data from up to 1000 machines via socket connections. It efficiently processes and stores large volumes of time-series data in InfluxDB, with PostgreSQL serving as the configuration database. The system incorporates multithreading for backend tasks and provides robust reporting and UI capabilities.

Key Contributions:
- Resolved critical performance issues, ensuring smooth handling of large data flows that previously caused system chokepoints.
- Developed a feature to preserve and retrieve backup data, mitigating risks of data loss during failures.
- Integrated a reporting module using JasperReports to generate dynamic and detailed reports.
- Enhanced the user interface using Bootstrap to improve usability and visual appeal.
- Spearheaded the conversion of servlet calls to AJAX, optimizing responsiveness and system performance.

Xplanner   I2C

Technologies Used: AngularJS, Core Java, SQL.

Description:

IXPlanner is a resource and project management application designed to help organizations efficiently plan and manage their projects. The system incorporates multithreading to handle notifications and features advanced project planning capabilities tailored to diverse team requirements.

Key Contributions:
- Resolved critical bugs and improved project stability through comprehensive fixes.
- Enhanced project planning logic to support dynamic and evolving organizational needs.
- Designed and implemented a Kanban board feature for teams with varying requirements.
- Worked on notification functionalities to ensure timely updates for users.
- Developed complex SQL queries to optimize data retrieval and streamline backend operations.
- Led the project for 3 months.

Attendance System   I2C

Technologies Used: AngularJS, Core Java, SQL.

Description:

The Attendance System is designed to manage employee attendance, leave applications, and working hour calculations. It features automated notifications for late arrivals and generates weekly and monthly attendance reports for supervisors.

Key Contributions:
- Led the project, providing guidance and assistance to junior team members.
- Oversaw the development of key features and ensured the system's reliability.
- Designed and optimized complex SQL queries for efficient data management and reporting.

Salary System   I2C

Technologies Used: AngularJS, Core Java, SQL.

Description:

The Salary System calculates employee salaries based on working hours, integrating with the Attendance System to process overtime and expense claims. The system ensures accurate salary calculations and smooth workflow management for employees.

Key Contributions:
- Led the project, providing guidance and assistance to junior team members.
- Oversaw the development of key features and ensured the system's reliability.
- Designed and optimized complex SQL queries for efficient data management and reporting.

Backconnect Web   Softech Systems

Technologies Used: JSP, Java Servlets, MSSQL, Multithreading
Description:
Backconnect Web is a comprehensive web solution for brokers, enabling automation of routine tasks, client management, and generation of business reports. It streamlines complex backend operations with user-friendly interfaces and one-click functionalities.
Key Contributions:
- Led the project, overseeing development and ensuring timely delivery of features.
- Designed and developed several screens from scratch to enhance user experience.
- Fixed critical bugs to improve system stability and performance.
- Implemented backend services for automated report generation, simplifying reporting workflows.

SKILLS

- Java (Core Java, JSP, Servlets)
- JavaScript (AngularJS, AJAX)
- Spring Boot
- JasperSoft studio
- API Development and Integration
- Team Leadership and Mentorship
- Azure (Project planing / Version control)

- SQL (MSSQL, PostgreSQL)
- Bootstrap
- InfluxDB (Time-series database)
- Socket Programming
- Reporting and Data Visualization
- Bug Fixing and Feature Enhancement
- Git

EDUCATION

BSSE (Software Engineering) - 2.8/4   **Jun 2016 - Mar 2020**
PUCIT
- Object Oriented Programing , Data Structure , Data Base , Programing Fundamentals , Operating Systems

ICS - Intermediate - 83%   **Mar 2014 - Mar 2016**
Punjab College
- Computer , Maths , Physics

ADDITIONAL INFORMATION

- **Languages:** English, Urdu.