



SHAHJALAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

Institute of Information and Communication
Technology

SWE 420 **Report of Internship**

Submitted By:

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Performed At:

Kaz Software

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Date of Submission: 26 June, 2022

Letter of Transmittal

July 16, 2022
The Director
Institute of Information and Communication Technology
Shahjalal University of Science and Technology
Sylhet, Bangladesh

Dear Sir,

I am very much delighted to submit a report as a part of my internship program. I am so thankful to the Institute of Information and Communication Technology, SUST for giving me the opportunity to connect my academic knowledge with the latest software development trends in a renowned software industry and to gather great industry experience.

I have been working as an intern at Kaz Software as a part of our course SWE 420, starting from September 1, 2021, to February 28, 2022. This report is based on my learning and experience during my internship time period. And this report covers the technical skills I developed during my internship program as well as my project participation, skill acquisition, and other improvements and issues.

I believe this report will be able to summarize the overall outcome of my internship course. I will be grateful if you accept my report, and your consideration will be highly appreciated.

Sincerely yours,



Shakirul Hasan Khan
Registration No: 2017831034
Department of Software Engineering
Institute of Information and Communication Technology
Shahjalal University of Science and Technology

Letter of Endorsement

To whom it may concern

Subject: Approval of the report

This is to certify that all the information mentioned in the report is accurate and not confidential to the company. Shakirul Hasan Khan had direct involvement in the projects mentioned in the report.

I personally went through and examined every page of the report, and I was unable to locate any information that contravened the organization's privacy policies.

I therefore declare the report to be true and give Shakirul Hasan Khan my best wishes for a prosperous future.

Shawal Siddique Shaon
Chief Technology Officer
Kaz Software

Md. Hannan Hossain
Principal Software Engineer
Kaz Software

Acknowledgement

I am excited to share this report about my internship experience at Kaz Software. I want to express my sincere gratitude to the Institute of Information and Communication Technology, SUST, for providing an opportunity for my internship. I also want to express my regards to Kaz Software for the support and the opportunity to work with a great team.

I'd like to offer my heartfelt appreciation to **Prof M. Jahirul Islam**, Director, Institute of Information and Communication Technology, SUST as well as to my honorable teachers.

I would like to thank **Shawal Siddique Shaon**, CTO of Kaz Software, for his guidance and support throughout the internship period. I would also like to thank my mentors, **Md. Hannan Hossain** (Principal Software Engineer) and **Biswajit Panday** (Senior Software Engineer), who trained and guided me in my internship journey.

I want to take this opportunity to thank **Ibrahim Khan Arshad** (currently working as a software engineer at Cefalo Bangladesh Ltd.) for his kind assistance and support. Finally, I want to express my gratitude to my team members, my fellow interns, and every member of Kaz Software for making my internship experience a memorable one.

Executive Summary

This report serves up the purpose of a summary of the work that I undertook as well as my experience during my internship period which was conducted on Kaz Software.

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Chapter 1

Introduction

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. Internships are usually offered part-time if it is during a university semester, or full-time if it is during a vacation. And in most of the cases, the internship is paid.

Institute of Information and Communication Technology, SUST always emphasizes industry knowledge on academic study. And to give students actual industry experience, IICT provides the opportunity to their students of Department of Software Engineering to work as an intern for six-months in a renowned software company as a part of their academic curriculum in the 7th semester. This opportunity helps to add a great value to personal qualification and experiences of their students.

The company I was sent to for my internship is Kaz Software. It is one of the most experienced software company in Bangladesh. Kaz Software have been successfully operating for more than 18 years.

1.1 Objective

This report is prepared as a requirement of the course SWE 420 at Department of software Engineering, Institute of Information and Communication Technology, SUST.

This document is intended to contain achievement, learnings, professional growth, achievements, and overall industrial experience during my internship period.

And if it is allowed, this document will be open to other students who'll be working as interns in future. So that they can decide if Kaz Software is a good choice for them.

1.2 Scope

The main scopes of this document are:

1. Work environment and culture of Kaz Software
2. Experiences I faced as an intern of Kaz Software
3. Projects I have worked on during my internship
4. The training and guidance I received
5. My professional and technical growth
6. Description of the technologies I used during my internship
7. And my opinion on this internship

Everything is discussed in this document without violating the confidentiality of the company.

1.3 Sources of Information

All of the information reported in this document is true and authentic. The accuracy and confidentiality of the information related to the company is verified by executives of Kaz Software.

This document contains both technical and theoretical information. As a result some information is taken from various websites, and the links to that websites are attached at the end of this report. So that reader can manually verify any external information, if they have any doubt.

1.4 Limitations

There are some limitations in this report. Not everything I did during my internship period can be shared with outside world. This document is reviewed by an executive from my company several times before submitting. And during those reviews, several information have been omitted, because they are confidential to Kaz Software. As a result this document is not perfect.

Chapter 2

Company Profile

This chapter describes the customs and culture of Kaz Software. Each section describes the overview of Kaz Software, the way it operates, what services they provide, technology used here, key features, location and what people here does for recreation.

2.1 Company Overview

Kaz Software is one of the best and most experienced software company in Bangladesh. It started as a start-up software outsourcing company in 8 June, 2004 and became a limited company in 2005 and continued to develop year after year. Typically Kaz Software builds software for the clients, but sometime they would be doing something completely different like researching business data or setting up their firewall. Kaz Software has some really talented engineers, designers, and content specialists to give it's clients a well built software.

2.2 Services

Kaz Software offers software development and content management services to international customers across multiple industries. Kaz understands the challenges that its customers face within and across these industries. Kaz provides practical, pragmatic and powerful solutions to address those challenges.



The services of Kaz Software covers every step of software development, from ideation to delivery.

Ideation, Graphics and Interaction Design

The design team in Kaz software helps the clients through the digital design and strategy maze. They work through every stages of a project with the client and keep brainstorming and create mockups, demos and presentations. And

during interaction design, Kaz Software always prefer to create the simplest solution.

Software Development

Teams at Kaz Software help our customers build customized software - everything from web to desktop to enterprise to mobile and beyond. They have been building softwares for various industries since 2004 and worked with many technology platforms and have collaborated with many teams over these years.

Kazians have worked on web applications, created desktop applications, and built numerous mobile applications. Some of things that they have built:

1. Social app with localization
2. Desktop based tax optimization tool
3. Corporate data management application
4. Document repository
5. Database driven file system
6. Content rich web application
7. LDAP management tool
8. iPhone/Android/Windows mobile applications
9. Online holiday management tool
10. Location content service
11. Location based social app platform
12. Flex based visio like diagramming tool
13. Desktop based diagramming and layouting tool.
14. Symbian application
15. VoIP billing solution
16. Mobile content solution
17. Stock trading portal
18. International trade research and management tool

Kazians don't specialize in particular technologies, but they are definitely proficient in wide array of tools and systems. Every product is unique, and they try to fit the right skills for that particular product.

Quality Assurance

Integrated quality assurance approach of Kaz Software incorporates aspects of agile and lean development with the stability and reliability of traditional SQA process. They believe software quality assurance is only possible with a mixed set of procedures which should involve all members of the team collaborating with a dedicated team of SQA professionals. Because of their involvement with all kinds of projects their SQA teams are exposed to a variety of technology and business domains. Types of testing services Kaz Software provides:

1. Product testing
2. Performance and Load testing
3. Content Validation Testing

Data, Content and Research

Kazian research teams have researched, compiled and maintained content in diverse fields and for a variety of applications. The research team is supported by our data specialists who leverage technology to optimize data gathering and ensure that the data is stored and managed efficiently. Services provided on this area by Kaz Software:

Research

1. Research and compile information
2. Categorize existing content
3. Meta tag content
4. Search and collect publicly available documents
5. Professional domain based translation of information
6. Statistical and economic analysis
7. News gathering and summarizing

Create and Maintain

1. Write, edit, proof read content
2. Maintain content in blogs, CMS or other systems
3. Translate existing content
4. Create and maintain structured content like spreadsheets
5. Maintain newsletters/news services

Data Services

1. Transformation of existing data to and from various formats such as csv, xml, etc.
2. Extracting data from unstructured or structured sources
3. "Cleaning" data by removing errors, unwanted information etc.
4. Storage solutions - Databases, XML, flat file

Appendix A

Appendix A

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Just Testing

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