



AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)
FACULTY OF SCIENCE & INFORMATION TECHNOLOGY

INTERNSHIP AFFILIATION REPORT ON

Trainee Web Developer at Orbit Informatics

An Internship Report Presented to the

OFFICE OF PLACEMENT and

DEPARTMENT OF COMPUTER SCIENCE

In Partial Fulfillment of the Requirements for the Degree

Bachelor of Science in Computer Science & Engineering

Supervised By

TANVIR AHMED

Lecturer

Submitted By

Shakib Mostahid, 15-30881-3

Spring 18-19

Date of Submission: 17th April, 2019

LETTER OF SUBMITTAL

17th April, 2019

Tanvir Ahmed,

Lecturer in Department of Computer Science

Subject: Submission of Internship Report *Trainee Web Developer at Orbit Informatics*

Sir,

I have the gratification to put forward my internship report on Trainee Web Developer at Orbit Informatics as a requirement of internship program of undergraduate degree, Bachelor of Computer Science and Engineering (CSE) in Department of Computer Science, Faculty of Science and Information Technology, American International University-Bangladesh. In instruction to conduct a title “*Trainee Web Developer at Orbit Informatics*”.

In this report, I tried to summarize what I have done and experienced during my internship period as a Web Developer at the company. Overall, my internship experience has been great. As a trainee I’ve gained firsthand experience with industrial development of software, its integration and maintenance. Additionally, I have also had a considerable amount of professional interaction on multiple levels: helping, advising, and providing feedback. My supervisor was open minded and allowed me to interact friendly. The report will explore the different aspects of the software engineering profession.

I am very contented to take part in this internship program. I would cordially thank you for giving me the chance to do this internship report.

Yours Sincerely.

Shakib Mostahid

ID: 15-30881-3

Computer Science and Engineering (CSE)

LETTER OF ENDORSEMENT

The Internship Affiliation Report entitled “*Trainee Web Developer at Orbit Informatics*”, has been submitted to the Office of Placement and Department of Computer Science in partial fulfillment of the requirements for the degree of BSc in Computer Science & Engineering by **Shakib Mostahid (15-30881-3)**. This report is presented to the Internship Defense Committee for evaluation and has been accepted.

Tanvir Ahmed

Internship Supervisor (academic)

Lecturer

Department of Computer Science

American International University,

Bangladesh (AIUB)

Kamrul Khan

Internship Supervisor (industry)

CTO & Senior Project Manager

Department of Software Development

Orbit Informatics Limited

Dean

Faculty of Science & Information Technology

ACKNOWLEDGEMENT

First of all, I would like to thank almighty **Allah** for his grace in completing my Internship report successfully on time.

I would like to express my cordial thanks to the **Faculty of Science & Information Technology** to keep internship credit in the curriculum of the graduation program and give me a scope of tasting the flavor of industry-oriented tasks and the field of work with my interest. I am also grateful to the **Faculty of Science & Information Technology & Office of Placement & Alumni**, AIUB to arrange an opportunity for choosing an own interested organization and complete internship there.

I am also thankful to my organization supervisor **Kamrul Khan**, CTO & Project Manager, Software Design & Development team, *Orbit Informatics* from the core of my heart for his kind support, guidance, constructive, supervision, instructions and advice and for motivating me to do my internship smoothly at *Orbit Informatics*.

To prepare this report and other documentation regarding the Internship Report and other report, I would express my sincere appreciation to all the members of *Orbit Informatics*, who always cordially advised me and helped me through hands and pens.

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1. INTRODUCTION

Internships provide the students a chance to relate their theoretical knowledge with the tough real-world environments. Moreover, if the internship is within a bachelor program and the students have to return to the academia after completing it, the skills that they have developed during the internship help them to gain a sounder academic result.

American International University-Bangladesh (AIUB) provides that glorious opportunity to their students of having an internship within their bachelor program. I am being one of the lucky ones to study in AIUB was send to *Orbit Informatics* at Software Development Department to complete my internship. With having a job count of one, I joined *Orbit Informatics* as an intern on 20th December, 2018. The expectations were high and I have completed my internship and later joined there as a **Jr. Software Engineer**, I must admit that it's really a wonderful experience.

The internship journey was not that simple. There were many obstacles, new technologies that I have to handle with, yet after overcoming each challenge, I had discovered a new potential within myself. The skills that I have gathered are priceless to me and I cannot wait to apply those in the upcoming semesters. In addition to that, some of the non-technical skills that I have procured, combined with those technical skills will certainly prove handy in my future jobs.

1.1 Rationale

This Internship is my best chance to test out potential career choices. I will be getting real-life experience doing the work of an employee in an organization. It will also good way to learn about management style and work environments and what type work will suit me. It would help me to develop my professional skill and build a network of contacts. It is the best way to begin a job search or build my resume and increase chance of getting hired. I have a fascination towards the application development. My career goal is to become a good software developer and exploit the tools of Information technology.

The purpose of the internship program is to help students focus on their career interests and potentials. The whole program entitles to give the opportunity to learn, observe and determine their goals and aims. At the end of the period, the study allows them to gather information and construct a report on their observations, knowledge and experience. As stated earlier the study also assists students in completing their academic credit.

1.2 Background

At *Orbit Informatics*, we have always put our client first. This idea permeates our culture to its core. It has driven us to create the innovative products and services we offer today. As a result, we enable our clients to put their people first-helping them build the people-centric environments they need to grow and meet their business goals.

Orbit Informatics is a software-development company in Bangladesh, who provides smarter computing to enable a smarter Bangladesh. *Orbit Informatics* and our local business partners are committed to providing innovative computing services, software and solutions that improve efficiency, solve problems and enable you to snatch new prospects. *Orbit Informatics* is filled with smart and innovative employees, each of whom are actively involved to do better in computing industry with their efficient and unique way. They develop software-solutions based on a range of platforms and technologies, including Windows, Android, Web Application.

Our Company follows Agile method. For project management we have used Jira and we use bitbucket as version control repository.

1.3 Objective

The specifications were not defined at the beginning of the internship. They were built day after day, according to new needs and these needs priorities.

Since I have had some experience with Website development, databases and my interest in Web development, my team leader assigned me to facilitate the transition of Index Bangladesh. This report contains what I have learned during the internship. This document contains the following:

- An internship report as specified by the University of AIUB.
- A week-based list of work accomplished during the internship.
- An evaluation of the internship.
- A signed evaluation schema, filled out by the person in charge of the intern.

It was my wish to complete internship in transition. I have a fascination towards the application development. My career goal is to become a good software developer and exploit the tools of Information technology.

2. ACTIVITIES

The activity schedule is the work distribution of an internee in order to complete the internship program. Activity scheduling determines the necessary tasks and allocates each task in the correct order. The internship program allows interns to understand how processes work and what is needed to be able to perform efficiently.

2.1 Work Related

My main assignment is to develop a website named “**Prepmock**” which is an online mock test platform, URL: <http://www.prepmock.com/> based on PHP Phalcon framework also using JavaScript, JQuery and Ajax. The project is still under development. A team of 4 members working under the project including me. I have done several tickets. I mainly work as a backend developer. I had worked with mail functionality. I had solved many bugs of the website. Also worked with SEO friendly URL generation. Therefore, only some of the common features of this project have been given below:

2.1.1 Features of Prepmock:

- Giving mock tests on several mode
- Exam simulator
- User’s performance report

I have worked there for 10am to 7pm.

2.2 Organization-wide

My working department was in Software development department. Mostly I have worked on backend. So, first my job was to be completed my tasks as frontend work starts after completing the backend codes.

2.3 Other relevant activities

All of my colleagues are very friendly. Everyone encouraged me in various way. I have got lot of supports from them which helps me to learn new things quickly.

3. CONSTRAINTS/CHALLENGES

3.1 Identified/Observed in the Organization

This internship has provided me a wonderful opportunity to acquire various technological skills. I have learned many things and gained experiences while working on *Orbit Informatics*. The journey was fantastic, even though I have identified that there are no training facilities, so when any new things come up, I had to learn on my own. But my supervisor helped me to learn in easiest way.

3.2 Academic Preparation

I have no courses left without thesis. So, I didn't have to think about my academic preparation. Only I need to think about my thesis work. So, my challenge was to do thesis work parallelly with the internship. Sometimes it's hard for me to manage the workload.

3.3 Personal/Professional Skills

During the internship period, I have gained some professional skills like how to work, how to handle Difficulties etc. I have learned few new technologies and their usage. I have face challenges whe the front-end issue came up, because I had no knowledge about ReactJs. Which is the reason I didn't do any frontend works.

4. ACQUIRED KNOWLEDGE

4.1 Consequences to Organization

From the learning and experience point of view I can say that I really enjoyed my internship period as a Trainee web developer in *Orbit Informatics*. Throughout my internship, I have learned various of knowledge from the organization. From the very first day, I was confident that I would have learn many new things and gained real life working experiences. Also, I have knowledges about the company policies and interaction procedure with the company. I have a decent understanding of industrial environment. I learned skills such as communication within a team. During the period of internship, I have tried to deliver the theoretical knowledge to the developer's community what I have gathered and going to acquire from various courses.

4.2 Implications to University's Internship Program

I would like to take this opportunity to thank the people who have given me invariable support while pursuing my internship curriculum. Overall the internship program of American International University– Bangladesh is very good.

University's internship program gives me the opportunity to know the industrial environment. This program helps me to apply my educational knowledges on practical world.

4.3 Effects on Personal/Professional Skills

After this internship, I have acquired personal and professional skills such as Punctuality, Dependability, learn new technology. Now I know how to cope up with the new technologies. I am so much confident to take any new challenges. After this internship, I have learned about version control system and experienced the necessity of these.

5. CONCLUDING STATEMENTS

5.1 Summary

The internship program made me accustomed to the professional company culture and the technologies they mostly deal with. It has helped me develop good judgment, proceed on my own in new technological challenges, and develop better analytical skills. The projects in which I worked inspired me to be harder working, responsible and confident.

The internship program has been a great helping the sense that it improved my teamwork capabilities. At the companies, it is important to function as a unit and respect the teammate's ideas and suggestions. Team discussions like brain storming sessions helped me identify and solve numerous problem issues that would have been impossible to solve otherwise.

I would like to convey my thanks to Faculty of Science and Information Technology for providing me an opportunity to gain idea of the competitive environment in the professional field. It has certainly lifted my software development skills in terms of design and coding. Now, I will look forward to facing the upcoming challenges of the world.

At last, I want to confess one very important thing that will be useful even for my younger brothers that Google is the savior in this sort of technological arena of expertise. So, one should be proficient enough to utilize the best out of it.

5.2 Recommendation for future Strategic Action

The internship opportunity as a trainee web developer helped me to develop the quality to understand the real-world environment of a software development.

5.2.1 Organization

An organization should give opportunity to an intern where they can work in their interested area with potentiality rather than assigning a minor work.

5.2.2 University

The internship program from the University is Perfect & Proper. It will be helpful if University can teach how the academic courses are correlates with professional work.

5.2.3 Professional/Personal

To become successful in professional life must have to work hard, responsible, sincere and smart in working.

RECOMMENDATION LETTER



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Ref:Orbit/Mis-17

Date:17th April ,2019

To whom it may concern

It is certified that **Shakib Mostahid** (ID: 15-30881-3), student of the Computer Science & Engineering Department from American International University-Bangladesh, has successfully completed **03 (Three) months internship program** from **20th December, 2018 to 20th March, 2019** in the **Software Development Department** of **Orbit Informatics Ltd** with due dedication and sincerity.

During his internship period he has worked on various software development programs & acquired practical knowledge.

We wish him every success in life.

Thanking You

(Sajid Israq)

CEO

Orbit Informatics Ltd



APPENDICES

Curriculum Vitae of

Shakib Mostahid

BSc in Computer Science and Engineering

I am eager to build a long-term career in the field of software development to learn something new and enhance my skills. Looking for the job opportunities to work as a Software Engineer for a leading company where in my knowledge & expertise is used.



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📍 Mirpur, Dhaka

KEY SKILLS

Languages & Frameworks

- C
- C++
- C#
- **PHP**
- **Laravel**
- Java
- **JavaScript**
- Node.JS
- Assembly Language

Markup Languages

- HTML
- XML
- CSS

Software

- Cisco Packet Tracer
- Weka

OTHERS

- Human Computer Interaction (HCI)
- Data Warehousing and Data Mining
- Object Oriented Programming
- Data Structure
- Algorithm
- MVC Pattern
- Networking (Subnetting)

EDUCATION

BSc in Computer Science and Engineering

American International University-Bangladesh

2015 – Ongoing CGPA: 3.61 out of 4.00

Higher Secondary Certificate (HSC)

Govt. Laboratory College

Batch of 2015 GPA: 4.07 out of 5.00

Secondary School Certificate (SSC)
Govt. Science College Attached High School

Batch of 2013

GPA: 4.69 out of 5.00

THESIS (ONGOING)

Topic: “Measurement of Attention on Web Content and Design: - An Eye Tracking Approach.”

Domain: Computer Vision and Pattern Recognition.

ACADEMIC PROJECTS

Title: Mini Super Shop Management

Language: C++

Title: Just Tap (Game)

Language: Java

Title: University Portal

Language: C#

Title: Tourist Blog

Languages: PHP, Javascript

Title: Online Restaurant

Environment: Node.js

Title: E-Commerce Website (Electro)

Framework: PHP (Laravel Framework)

Title: Medicine Reminder using Arduino

Tool: Arduino UNO

ACHIEVEMENTS

3rd in Networking contest in AIUB CS FEST 2017

7th in Junior Programming Contest in AIUB CS FEST 2016

INTEREST

- Software Development
- Website Development
- Backend Processing

HOBBY

- Like to play Cricket, Badminton.
- Playing Games
- Watching game and movies.
- Hearing songs.
- Writing code.

REFERENCES

Azm Ehtesham Chowdhury, Assistant Professor, American International University-Bangladesh, ehtesham@aiub.edu

DECLARATION

I do hereby state that above information is true and authentic to the best of my knowledge



Shakib Mostahid