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Technical Skills

• Software Development
★★★★★★★★★★★★

• Machine Learning
★★★★★★★★★★★☆☆

• Programming
★★★★★★★★★★★★☆☆

• Requirement Analysis
★★★★★★★★★★★☆☆

• Project Management
★★★★★★★★★★★☆☆

Programming

OOP • Java • Spring

PHP • Laravel • Bootstrap

Python • Javascript • Angular

• Springboot • JSF • Docker • AWS
• Swagger API • RESTful APIs • Oracle
• SQL • HTML5 • CSS3 • Ajax • Maven
• Hibernate ORM • JBoss

Experience

Sep 2019 - Present **Graduate Assistant (Part-time)** ZEW
ZEW - Leibniz-Zentrum für Europäische Wirtschaftsforschung GmbH, Mannheim

- Managing project development team to ensure the project goals.
- Implementing new features, identifying gaps and developing enhancements to improve software quality.
- Requirement analysis of new requests from end users.
- Collaborating with the team during the successful deployment of the application in various cities.

Mar 2017 - Feb 2019 **Assistant Software Engineer** MISL
Millennium Information Solution Ltd. (MISL), Dhaka

- JAVA web application development using Spring Framework.
- Multiple application integration using RESTful API.
- Requirement analysis of new requests from end users.
- Report development in JasperReports.
- As a team member, developed multiple banking software modules.

Sep 2016 - Feb 2017 **Trainee** MISL
Millennium Information Solution Ltd. (MISL), Dhaka

- Automation testing using Selenium-Webdriver
- Created internal developer documentation and user manual.
- Refactored and reorganized existing code base

Aug 2013 - Aug 2016 **Student Assistant**
American International University-Bangladesh (AIUB)

- Assisting students with their academic courses
- Software Documentation
- Web content management

Education

2019 - 2021 **Master in Computer Science** Specialization in Intelligent System.
Technische Universität Kaiserslautern (TUKL)
Thesis: "Maintaining Topic Relevance Using Conversation Rules in Affective Human-Robot Interaction."
• Conversation rules were applied during the response generation in Human-Robot Interaction.
• Natural Language Toolkits were used to analyze human utterance and generate affective behavior.
• **Tools:** C++, lib: MIT Information Extraction

2012 - 2016 **Bachelor in Computer Science and Engineering (CSE)** GPA: 3.80/4.00
American International University-Bangladesh (AIUB)
Thesis: "Sentiment Analysis of Stock Market News and Price Prediction Using Markov Chain model."
• Analyzed stock market news scraped from website and enforced sentiment analysis to predict the future stock.

Tools

IntelliJ IDEA, Eclipse , Git/SVN, Jira, JasperReports

Patterns & Practices

Agile software development, Scrum, Object Oriented Programming, CI/CD, Functional Programming, Microservices

Testing

JUnit, Selenium-Webdriver

Research Interests

- Human Robot Interaction
- Natural Language Processing
- Expert System

Language

English - Fluent
German - B1.1

Project

- 2019 - Present **Kitamatch: Redesign of the allocation of daycare places** Git
- Responsible for developing kita matching process for multiple city administration.
 - Develop new features to increase the usability of the system.
 - **Tools:** PHP, Laravel, AWS, R
- 2020 **Master Project: Chatbot based intuitive Human-Robot Interaction**
- Developed a chatbot program for a humanoid robot, ROBIN.
 - Applied sentiment analysis for affective robotic behavior.
 - **Tools:** C++, lib: MIT Information Extraction
- 2019 **Master Project: JD Farmer** Git
- As a Team we developed an Apple CarPlay Smart-Farming App for John Deere.
 - I was responsible for UI & UX design part of this project.
 - **Tools:** Swift
- 2018 - 2019 **ABABIL NG: Core banking solution**
- Developed back-end service and business logic for different module of this banking solution in an Agile manner.
 - Implemented RESTful APIs to communicate with microservices.
 - Was responsible for developing Bank Guarantee, Cheque Requisition module of this system.
 - **Tools:** Java, Spring Boot, Angular, CI/CD, Docker
- 2018 - 2019 **Bangladesh Electronic Funds Transfer Network (BEFTN)**
- Lead the application development team.
 - Analyzed end user requirements, prioritise and assign programming task.
 - Developed local and foreign currency fund transfer between banks.
 - **Tools:** Java, JSF, Jboss
- 2018 **Bangladesh Automated Cheque Processing System (BACPS)**
- Report development.
 - Responsible data migration from Oracle database to SQL server.
 - Added different functionality based on client requirements.
 - **Tools:** Java, JSF, Jboss
- 2017 **Treasury**
- Analyze and development of end user requirements.
 - Added Fund Transfer and Foreign Exchange Deal facilities to this module.
 - **Tools:** Java, JSF, Jboss

Publications

S. Paplu, M. Arif and K. Berns, "Utilizing Semantic and Contextual Information during Human-Robot Interaction," in 2021 IEEE 11th International Conference on Development and Learning (ICDL), IEEE, 2021.

S. Paplu, M. Arif and K. Berns, "Adapting Behaviour of Socially Interactive Robot based on Text Sentiment.," in 2021 30th International Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2021), Vol. Advances in Service and Industrial Robotics, S. 221 - 228. (2021).