Moinul Morshed Porag Chowdhury

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Summary

Dedicated software engineering professional with more than 3 years of software development and 6 years of research experience in multiple IT industries and research institutions. Seeking a full-time engineer position to support the team with excellent problem-solving and research skills to boost production efficiency and profitability.

Education

Ph.D. in Computer Science	University of Texas at El Paso (UTEP)	May 2020
M.Sc. in Computer Science	University of Texas at El Paso	Dec 2016
BS in Computer Science	Bangladesh University of Engineering and Technology	Feb 2011

Skill Highlights

Languages	Java, Python, C++, C, JavaScript, C#, R, CSS, JQuery, Ajax, Ruby on Rails, PHP, HTML5
Databases & Tools	SQL, MySQL, Oracle, NoSQL (MongoDB), Weka, Dl4j, Keras, Git, Maven, LaTeX
Strong Background in	Data Structure & Algorithms, Reinforcement Machine Learning, Artificial Intelligence

Work Experience

Postdoctoral Researcher   New Mexico State University, Las Cruces, New Mexico   Jun 2020 – Present
- Analyzing and developing algorithms to recommend device schedules in smart homes by learning user preferences using deep reinforcement learning and AI methods.
- Mentoring 5 undergrad students to create a smart home device scheduling test-bed using OpenHAB.

Research Associate   University of Texas at El Paso, El Paso, Texas   Aug 2014 – Jun 2020
- Proposed a novel state-of-the-art PDA bidding algorithm for PowerTAC agents to optimize wholesale cost. Introduced a retail trading strategy using EGTA and DRL methods to maximize agent profit in retail markets.
- Led a team of 3 to develop a trading agent to participate in the PowerTAC competition and mentored 110 undergrad students as a lab instructor in a multi-cultural class environment.

Software Engineer   Cefalo A.S., Dhaka, Bangladesh   Feb 2014 – Jul 2014
- Developed a website crawler (Job Crawler) for a client, where job postings can be fetched from external websites and published in their job portal which increased their profit by 10%–15%.
- Implemented a WordPress plugin that helps external users to post articles in the escenic database efficiently.
- Collaborated with client-side developers to solicit and work on business requirements using the agile process.

System Analyst and Software Developer   KB Group UK, Dhaka, Bangladesh   Jun 2011 – Jan 2014
- Led a team of 2 developers to build a browser-based ticket printing solution to print thousands of daily tickets.
- Added new features to existing back-end projects to improve the efficiency of e-ticketing, which increased the ticket sale 10%–20% compared to the prior year.
- Developed a layout editor, for designing ticket layouts and email confirmations which could also convert designs into corresponding ticket printer languages or HTML code.
- Created a C++ NPAPI plugin to provide TCP/IP handshaking service for web-browsers to print tickets.

Software Engineer   Dynamic Solution Innovator Ltd., Dhaka, Bangladesh   Feb 2011 – May 2011
- Upgraded the User Interface of Citrix's Web Content Management System according to business requirements.
- Worked with remote developers and testers to solicit and analyze requirements using the SCRUM dev process.

Awards

- Finalist and Honorable Mentions for People's Choice, UTEP Ph.D. Thesis (3MT) competition, 2020.
- Dissertation Completion Fellowship, University of Texas at El Paso, 2019–2020.
- 3rd place, PowerTAC annual AI competition, 2017.