

MD. JUNAEDUR RAHMAN

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SUMMARY OF QUALIFICATIONS

- More than 4 years of professional developing experience in leading software companies.
- Specialized in applying Deep Learning models for audio, video and text processing.
- Skilled in C/ C++/C#, Java, Python, Java Script, MATLAB, XML, SQL, Prolog.
- Vast professional experience on UML, SysML, TCP/IP, UDP, software development, testing and evaluation framework in x86/64 architecture.
- Experienced in working on Windows 10, Windows 2000, RedHat Enterprise and Ubuntu.
- Strong experience in machine learning and Global Data Space management using DDS.
- Specially skilled on SCRUM Agile product life cycle management.

ACADEMIC QUALIFICATION

1. PhD. Candidate, Computer Science, University of Western Ontario, London, Canada
2. MPhil., Computer Science, Kingston University, London, England
3. MSc, Computer Engineering, Hogskolan Dalarna University, Sweden
4. BSc, Computer Engineering, Ahsanulla University, Dhaka, Bangladesh

INDUSTRY R & D EXPERIENCE:

JOB-1:

- **A.I. Developer**, Densify Inc. London, ON

August 2017 – Current

Responsibilities:

1. Building a machine learning infrastructure for densified video processing based on computer vision, speech, audio, cyber physical systems, etc.
2. Leading a team for developing an inhouse data center for creating specific dataset for specific purpose.
3. Design and develop different machine learning systems, insights, and algorithms, and then prototype, deploy to production, and test them to ensure all client's business needs are covered.
4. Developing a framework for validating the solution and manage overall software implementation lifecycles of projects, ensuring compliance with existing and future enterprise implementation standards.
5. Optimizing algorithms and prototyping solutions for efficient implementation. Extending prototypes into fully functional, polished solutions ready for internal and/or external use. Supporting projects with thorough documentation of usage, design decisions and capabilities

JOB-2:

- **Researcher**, Kingston University London, UK and LG Electronics (Korea). January 2010 – April 2010

Responsibilities:

1. Embedded software development for cell phones, testing and performance evaluation of surveillance video analysis using C++ and web application using Java script.
2. Designed experiments in the cluster for better processing in Linux OS using Eclipse.
3. I have undertaken a course on mainframe server storage management system with practical hands on development experience.
4. Developed an algorithm to evaluate the performance of the combination of local features of tracking objects for **LG Electronics, Korea** (Eclipse, Java, SVM).
5. Designed and developed tools for detection and tracking articulate human motion in unconstrained scenarios using a single surveillance camera (C++, Boost, MATLAB, SVM).

6. Designed and developed tools to track silhouettes in videos to solve nonlinear articulated pedestrian tracking problem (C++, Boost, MATLAB, SVM).
7. Peer review of papers for 7th IEEE/IET/AAAI International Conference on Intelligent Environments, Nottingham, U.K., July 2011.
8. Have experience dealing with the Anthropometrical Size requirements for confined space and have clear conception regarding the specification given by Ministry of Labour, Canada.

JOB-3:

- **Assistant Manager (I.T.)**, Multimode Group, Microsoft January, 2004-January 2007 Division, Dhaka, Bangladesh.

Responsibilities:

1. Worked as an Assistant System Manager, responsible for providing software solutions for more than 500 employees. It was a team of 8 people providing embedded technical solutions inside the group of companies.
2. I was responsible to provide technical solutions using Microsoft products. For the software development I had implemented the ERP software in C++ and SQL Server. I have planned, designed the information system of the company and implemented. I was involved in upgrading the software by adding new features and maintained it for two years in a resource constrained environment.
3. Actively participated in UI design, feature development and conceptualization.
4. I was in charge of the communication with the clients, arranged workshops to share views.
5. Involved in web based software quality testing and responsible for making marketing policies, improving the business areas for Microsoft products.
6. Have experience in working with full project life cycle, specially designing, developing and support phase.

RELEVANT SKILLS

- More than 5 years of experience in programming language and algorithm design.
- Worked as a researcher of a team for software development and performance evaluation.
- Designed experiments in the cluster for better processing.
- Successfully maintained flow of product supply chain management locally.
- Involved in web based software quality testing and responsible for making marketing policies, improving the business areas for Microsoft products.

PROFESSIONAL SPECIALIZATION:

- Artificial Intelligence
- Computer Vision
- Machine Learning
- Pattern Recognition.
- Image Processing and Analysis
- Robotic Vision
- Intelligent System Software Development

CURRENT POSITION:

- Researcher, University of Western Ontario, London, Canada.
- Member of Digital Imaging Research Centre (DIRC).
- Member of Human Body Motion Group (HBM).
- Member of Visual Surveillance Research Group (VSRG).
- Member of Boston Paranormal Investigation (BPI) USA.
- Reviewer of papers for 7th IEEE/IET/AAAI International Conference on Intelligent Environments, Nottingham, U.K., July 2011.
- Reviewer of Pattern Analysis and Applications.

PUBLICATION(S):

- Md. Junaedur Rahman, Jesus Martinez Del-Rincon, Jean Christophe Nebel, Dimitrios Makris. Body pose based pedestrian tracking in a particle filtering framework. Submitted in MVA 2013, Kyoto, Japan.

LEADERSHIP AND TEAM WORK

- Leded a group of people to keep the flow of Microsoft products supply chain management in order.
- Organized a workshop in Multimode Group, Microsoft Division.
- Worked as a researcher in a team assisted on Software development and performance evaluation.
- Worked for Ahsanullah University of Science and Technology Alumni Association.
- Presided high school debating society and organized workshops to train present debaters who became champion on several television debating competitions.

ELIGIBILITY TO WORK IN CANADA

Permanent Resident. Can travel to US and any other international countries. Have a valid passport.

REFEREES

Available upon request