Abdullah Nazib

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About

As a creative and analytically sound programmer, I have more than 5 years experience in analyzing, designing and implementing sophisticated computer vision and machine learning algorithms particularly focused to solve registration and segmentation problems of 3D medical images. Got an experience in developing and implementing algorithms for real time situations and environments to meet the demands of various stake holders. I have in depth knowledge of python based deep learning software tools like tensorflow, pytorch etc as well as extensive experience in C++ with visual studio. Now, I am seeking to advance my career in a challenging position within a forward thinking, futuristic tech company which will capitalize my technical knowledge, skills in algorithm design and development.

Work Experience

Biomedical Data Science Lab (BMDS), QUT, Australia.   2016 - 2020

- ➢ Position : Research Assistant (PhD)
- ➢ Duties & Responsibilities:
    - ▪ Evaluate and analyze 3D image registration algorithms.
    - ▪ Develop and implement new novel 3D image registration algorithm.
    - ▪ Publishing results in conferences and journals.
- ➢ Project Works Conducted:
    - ▪ Development of deep learning based 3D registration algorithm for high resolution data.
    - ▪ Evaluate and analyze conventional registration algorithms on high resolution data.

Robot Research Initiative (RRI), Gwangju, South Korea.   2015 - 2016

- ➢ Position : Research Engineer.
- ➢ Duties & Responsibilities:
    - ▪ Project Management in Medical Imaging
    - ▪ Designing, optimizing 2D-3D image registration algorithms.
- ➢ Project Works Conducted:
    - ▪ 2D-3D image registration for bone surgery robots (MatLab and C++)
    - ▪ Registration technique analysis tool development for X-Ray images (C++)
    - ▪ Optimization Tool Development: Gradient Descent, Conjugate Gradient, Simulated Annealing, Particle Swarm Optimization.

Intelligent Image Media & Interfacing Lab   2013 - 2015
- ➢ Position : Research Assistant
- ➢ Duties & Responsibilities:
    - ▪ Conducting research in computer vision field
    - ▪ Ensuring quality research through investigation and methodical analysis

- - Conducting research projects on regular basis
- ➢ Project Works Conducted:
  - ▪ Development of Police Gesture Recognition System Using Kinect
  - ▪ Design A Human Tracking Framework for Night Time Using MatLab and C++
  - ▪ Multi Target Tracking Framework based on Supporter, Matlab and C++
  - ▪ Face Recognition Framework modeling by 2D-LDA
  - ▪ Entropy Histogram Based Filter design for robust feature selection.

Asian University of Bangladesh   2011 - 2013
- ➢ Position : Lecturer, Dept. of Computer Science & Engineering
- ➢ Taught Courses:
  - ▪ CSE-2418: Design & Analysis of Algorithm.
  - ▪ CSE-1208: Programming Language & Application II.(C++)
- ➢ Lab:
  - ▪ CSE-2418: Design & Analysis of Algorithm.
  - ▪ CSE-1208: Programming Language & Application II.(C++)
  - ▪ CSE-2312: Object Oriented Programming.(C#)

Technical Skills

Programming Languages: C,C++, C#.Net, MatLab, Python (2.7 and 3.6).
Machine Learning Toolkits: Tensorflow, Pytorch
IDE: VS 2010, VS 2012
Image Processing ToolKit: OpenCV, ITK, VTK,
Database: SQL Server 2005/2000

Education

PhD (Expected Completion Date 20th January 2020)   2020
EECS, Queensland University of Technology
Queensland, Australia.

M.Sc in Electronics & Computer Engineering   2014
Chonnam National University, Gwangju, South Korea
Thesis: Multi Target tracking using spatial constraint.

B.Sc in Information & Communication Engineering   2010
Islamic University, Kushtia, Bangladesh
Thesis: Computational DNA Sequence Analysis.

References

Professor Clinton Fookes   **Dr Dimitri Perrin**
Electrical Engineering & Computer Science   Electrical Engineering & Computer Science
Queensland University of Technology   Queensland University of Technology

Contact Information will be given upon request

I solemnly certify that all information stated in this resume is true and complete to the best of my knowledge. I authorize you to verify the information provided in this resume.

Sincerely Yours
Abdullah Nazib