

Bilal A. Lodhi

SOFTWARE ENGINEER · IMAGE PROCESSING AND AI EXPERT

27-3 Seongbuk-gu Jongam-dong Room B102, Rep. of KOREA

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"If you don't build your dream someone will hire you to help build theirs." - Tony A. Gaskins Jr.

Summary

I am an enthusiastic and professional, who enjoys being part of, as well as leading, a successful and productive team. I am quick to grasp new ideas and concepts, and to develop innovative and creative solutions to problems.

Work Experience

Data Mining and information System Laboratory, Korea University

Seoul, S.Korea

RESEARCH ASSISTANT

Sep. 2011 - Feb. 2018

- Designing and development of new architecture of Convolutional Neural Network (CNN).
- Proposed an efficient algorithm for cancer diagnosis in mammograms
- Efficient and accurate ROI generation, extracting a set of features (textural, statistical and frequency) and finally classification of masses.

ALPINION Medical Systems

Seoul, S.Korea

RESEARCH ENGINEER

Jan. 2016 - Jan. 2017

- I lead three projects, which were related to needle tracking, speckle noise removal and de-mosaicking.
- Platform was built and deployed in C, C++ and Python with a focus on frame rate, fault tolerance and false detection of the needle.

Bahria Enterprise Systems and Technologies

Islamabad & Karachi, Pakistan

SOFTWARE DEVELOPER

Jun. 2006 - Jul. 2011

- CRM software development (based on PHP, MySQL, Ajax and SugarCRM). Developed software is for effective sale force, marketing, customer support services and order management
- Developed customizable reports, ticket management and mobile friendly version of the CRM

National Institute of Population Studies

Islamabad, Pakistan

SOFTWARE ENGINEER

Jan. 2005 - May. 2006

- I have worked on database and data entry program development for survey data.
- Experience efficient entry of the huge survey data, data cleaning and report preparation

Technical Skills

- Scientific expertise in the fields of machine learning, computer vision, pattern recognition, medical image analysis (segmentation, feature extraction, classification), computer aided diagnosis and discrete geometry processing
- Experience working in Python, TensorFlow and PyTorch
- Engineering expertise of design, implementation, optimization and integration of algorithms in C++, ITK, and Matlab.
- Experience working on web technologies, PHP, MySQL, JavaScript, XML, CSS and HTML.
 - Content Management Systems (CMS): Wordpress, Joomla and Drupal.
 - Web Customer Relationship Management (CRM): Sugar CRM and vTiger.
 - Shopping Cart Solutions: openCart, PrestaShop and Magento.
- Practical experience of working in R.
- Have practical experience of Data Warehouse using TERADATA.
- Ample knowledge of statistical Softwares, i.e. SPSS and CPro.
- Hands-on experience of working on HADOOP and VOLDEMORT (Key-value data store).
- Sound knowledge of C/C++, OOP (Object Oriented Programing).
- Experience of designing database in SQL Server, and MS Access.
- Web Development experience in PHP, MySQL and ASP.NET.
- Development in Microsoft Visual Studio.

Education

Korea University

Seoul, S.Korea

PHD IN COMPUTER SCIENCE

Sep. 2011 - Aug. 2019

- Working on novel Convolution Neural Network (CNN) architecture for classification of objects in image.

NUCES-FAST

MS(CS) IN COMPUTER SCIENCE

- Worked on image and video data segmentation.

Islamabad, Pakistan

Jun. 2006 - Apr. 2009

Baqai University

BS(CS) IN COMPUTER SCIENCE

Karachi, Pakistan

Jun. 2001 - Dec. 2005

Honors & Awards

2008 **1st Place**, 2nd multi-topic graduate workshop in NUCES-FAST.

Islamabad,

Pakistan

2008 **3rd Place**, multi-topic graduate workshop among multi-campus of NUCES-FAST.

Islamabad,

Pakistan

Extracurricular Activity

Pakistani Students Association R.O.Korea

ELECTION COMMISSION & ADMINISTRATOR

- conducted e-elections for Pakistani students in all universities of R.O.Korea
- Deriving election rules and community building

S.Korea

Jun. 2013 - Jun. 2015

Publications

- Publication's list will be provided if required. It is also available on the website.