Kushal Kafle

PERSONAL DATA

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RESEARCH INTERSTS

Machine Learning, Computer Vision, Deep Learning, Image and Natural Language Understanding

EDUCATION

AUG 2014 - Ph.D. Student in IMAGING SCIENCE,
Current Chester F. Carlson Center for Imaging Science
Rochester Institute of Technology, Rochester, NY
Advisor: Dr. Christopher Kanan | Research Group: klab

OCT 2008 - DEC 2012 Bachelor's Degree in Electronics and Communication Engineering,
Tribhuvan University, Institute of Engineering, Kathmandu, Nepal
Elective Specialization: Image Processing and Pattern Recognition

PUBLICATIONS

 Answer-Type Prediction for Visual Question Answering, Kushal Kafle and Christopher Kanan*. In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR-2016)

RESEARCH EXPERIENCES

JULY 2015 - Current	RESEARCH ASSISTANT Chester F. Carlson Center for Imaging Science, Rochester Institute of Technology, Rochester, NY Advisor: Dr. Christopher Kanan Research Group: klab Topics: Computer Vision, Deep Learning, Visual Question Answering, Natural Language Processing
Apr 2013 -	R&D CONSULTANT
JULY 2013	Alternative Energy Promotion Center, Lalitpur, Nepal
	Ministry of Environment and Population, Nepal Government
	Tasks: Did feasibility study of remote monitoring scheme for Solar Home
	Systems in rural areas. Developed Prototype remote monitoring system.
Nov 2012 -	Research Assistant
DEC 2012	RF and Microwave Engineering Lab,

RF and Microwave Engineering Lab,
Tribhuvan University, Institute of Engineering, Kathmandu, Nepal
Tasks: Demonstrated the vulnerability of ISO/IEC14443 HF-RFID tags with regards to its use in e-Voting system. Designed and reproduced security risks and potential attacks in laboratory.

TEACHING EXPERIENCES

JAN 2015 - TEACHING ASSISTANT

MAY 2014 Chester F. Carlson Center for Imaging Science,

Rochester Institute of Technology, Rochester, NY **Under**: Dr. Emmett Ientilucci | **Class**: Radiometry

Tasks: Designed, conducted and graded laboratory exercises and homework

assignments

AUG 2014 - TEACHING ASSISTANT

DEC 2014 Chester F. Carlson Center for Imaging Science,

Rochester Institute of Technology, Rochester, NY

Under: Dr. Anthony Vodacek | Class: Fundamentals of Imaging Science

Tasks: Conducted and graded laboratory exercises

MAY 2013 - LECTURER

OCT 2013 | College of Information Technology and Engineering,

Purbanchal University, Kathmandu, Nepal

Subject: Image Processing and Pattern Recognition

Tasks: Taught lecture and tutorial module as per existing syllabus. Designed, conducted and graded laboratory exercises and homework assignments.

WORK EXPERIENCES

JUNE 2013- | SOFTWARE DEVELOPER

SEPT 2013 Technology Sales Pct. Ltd. Kathmandu, Nepal

Responsibilities: Developed an user-friendly interface in Visual C# for smartcard based vehicle checkpoint entry system installed nationwide. Functions included tracking and logging trips in central database, issuing, verifying and renewing permit imprinted in smart card etc.

SCHOLARSHIPS, AWARDS AND GRANTS

MAR 2016 | AWS Research Grant

Application completed with Dr. Christopher Kanan. worth \$15000 in AWS

credits usable for any AWS service.

APR 2013 | Grant from Alternative Energy Promotion Center (Contract number: 245160)

Team Lead on Grant of NRs. 67900, awarded for development of prototype

remote monitoring system.

DEC 2012 | Winner of Nationwide Design Competition

Team lead of winning design of open design competition entitled "Electronically Operated Innovative Monitoring System for Solar Home Systems installed in Rural Areas of Nepal" organised by Alternative Energy Promotion Ceneter, Under ministry of Environment and Population, Nepal Government.

2009-2012 | Scholarship from Nepal Government

Scholarship from Ministry of General Administration, Scholarship Division Committee. Granted only to 200 Engineering, Science and Medicine students

each year across the country.

2008-2012 | College Fellowship Scholarship

Granted by Tribhuvan University based on Merit per semester. Fellowship granted on six out of eight semesters.

SKILLS

Deep Learning Packages Caffe, Matconvnet, Theano (Basic) Competent in Programming C, C++, MATLAB, PYTHON, Also Familiar With JAVA, C#, IDL, PIC Micro-controller Programming, Assembly (8085, 8086) HTML, CSS, JavaScript, JQuery, CherryPy, PHP, Ba-Web Programming Stack sic Server Configuration in Nginx and Apache, Databases in SQLite and MySQL Linux (Ubuntu), Microsoft Windows (XP and above), **Operating Systems** Mac OS-X (Basic) TypeSetting & Spreadsheet: Open Office, Excel, Word, PowerPoint, LATEX

LANGUAGES

NEPALI: Mothertongue

ENGLISH: Fluent | TOEFL score of 118/120 | Equivalent IELTS score of band 9.0/9.0

HINDI: Basic Reading and Conversation Skills

MEMBERSHIPS

• IEEE Student Member

OTHER INTERESTS AND ACTIVITIES

engaged as I used to be

Top-25 in "Hamro Nepal" (Translated "Our Nepal") Competition/Exhibition by ARTUDIO, 2012

I enjoy taking pictures and learning new techniques. But I am not as

• Finalist in "The Best of Nepal" photo Exhibition by ROTASIA-2012

IN SPARE TIME

PHOTOGRAPHY

I enjoy reading (fiction and non-fiction), Hiking, Board Games, Keeping up with current affairs and tech advancements