KNT

KHOI-NGUYEN TRAN

POSTDOCTORAL RESEARCHER | KHDNTRAN@AU1.IBM.COM

OBJECTIVE

To develop and apply my research skills in industry by creating innovative solutions for business problems with real-world impact.

SKILLS

Applying research to business problems
Delivering demos
Front-end and back-end web programming
Communicating complex ideas to diverse audiences

Data science
Machine learning
Text mining
Natural Language Processing
Knowledge Discovery and Data Mining

I HAVE USED

IBM Cloud (Bluemix)
GitHub Enterprise
Scikit-learn, Tensorflow
CrowdFlower
NLTK, Stanford NLP
HTML, JavaScript, JQuery, Flask
Java, Python, R, MySQL
Docker, Kubernetes

EXPERIENCE

POSTDOCTORAL RESEARCHER • IBM RESEARCH • SINCE 2016
Developed novel research approaches for document chunking and learning objective generation. Currently exploring machine learning approaches for the Education Library to improve alignment of content to learning standards. Publications under review.

DATA SCIENTIST • AUSTRALIAN FEDERAL GOVERNMENT • 2015 - 2016
Worked on classified projects.

RESEARCH ASSISTANT • AUSTRALIAN NATIONAL UNIVERSITY • 2011 - 2015
Co-founded the ANU Cybercrime Observatory. Research into detecting malicious spam emails. Publication in AusDM.
Developed a Facebook app to collect user data for research into collaborative filtering for recommendation. Publication in WWW.

EDUCATION

PH.D. COMPUTER SCIENCE • 2015 • AUSTRALIAN NATIONAL UNIVERSITY
Developed novel machine learning features and methodologies to detect vandalism across five languages on Wikipedia based on metadata and text data. Publications in TKDE, PAKDD, CIKM, AusDM, and JDIQ.

B. COMPUTER SCIENCE • 2009 • AUSTRALIAN NATIONAL UNIVERSITY
First Class Honours. Taught computer science and data science courses and completed research projects on sensor ontology and data science.

VOLUNTEER EXPERIENCE OR LEADERSHIP

President (2011-2012) and volunteer (2007-2010) for the ANU Computer Science Students' Association.
Delegate for the inaugural Australian Vietnamese Young Leadership Dialogue (2017).