Binh Vu

https://binh-vu.github.io https://www.linkedin.com/in/binh-v-3828a16a/ Updated: October 1, 2019 binhvu@isi.edu +1-213-269-9961

RESEARCH INTERESTS

Machine Learning, Semantic Web, Knowledge Graph Construction

automatically publishing data to knowledge graphs.

EDUCATION

• Ph.D. Student in Computer Science

Aug 2016 - Present

University of Southern California, Computer Science Department, Los Angeles, CA Advisor: Professor Craig Knoblock

• Bachelor of Engineering in Computer Science HCMC University of Technology, Ho Chi Minh, Vietnam Aug 2010 - Jan 2015

Thesis: Wikipedia-based Entity Disambiguation using Deep Learning, advisor Professor Tru Cao

RESEARCH EXPERIENCE

• University of Southern California, Information Sciences Institute, Marina del Rey, CA Graduate Research Assistant, Center on Knowledge Graph

Aug 2016 - Present

• Learning Semantic Models of Data Sources Learning semantic models that describes structured data sources using ontologies. The semantic models are used to

Oct 2017 - Present

 Identifying potential company hardware/software vulnerabilities Oct 2016 - Sep 2017 Given a company, auto-crawling online sources to retrieve expertise of its employees, then predict the software and hardware used in the company. The list of vulnerabilities is obtained by linking the software and hardware to the CVE database.

• Rakuten Inc., Tokyo, Japan

Jun 2015 - May 2016

Software Engineer, Big Data Department

- Fraud Detection in ID Hijacking and Payment: Developed a near real-time streaming system that analyses time-series data and generates warning when attacks happens
- HCMC University of Technology, Ho Chi Minh, Vietnam Undergraduate Research Assistant, Computer Science Department

Jun 2014 - Dec 2015

• Wikipedia-based Entity Disambiguation using Deep Learning: Using autoencoders to extract latent features of entities in Wikipedia articles for the name entity disambiguation problem

KEY HORNORS

ISI Distinguished Top-Off Fellowship

April 2016

Vietnam Education Foundation Fellowship to pursue Ph.D. degree in the U.S.

2016

Outstanding Honor Student Award

2011 - 2014

SELECTED PUBLICATIONS

- Binh Vu, Craig Knoblock, and Jay Pujara. 2019. Learning Semantic Models of Data Sources Using Probabilistic Graphical Models. In The World Wide Web Conference, pp. 1944-1953.
- Binh Vu, Jay Pujara, and Craig Knoblock. 2019. D-REPR: A Language for Describing and Mapping Diversely-Structured Data Sources to RDF. In The Tenth International Conference on Knowledge Capture (K-CAP).

TECHNICAL SKILLS

- Languages: Python, Rust, Java, Javascript (Full-stack Web Developer)
- Technologies: Pytorch, Tensorflow, Docker, ElasticSearch, Databases (MySQL, Postgres, Redis, Cassandra), Jenkins, Travis, etc.
- Operating Systems: Linux, MacOS