TAM DANG

EDUCATION

University of Washington

M.S. in Computer Science

Sep 2015 - Jun 2019 (c/o 2019)

COURSEWORK

Machine Learning & NLP

- CSE 546: Introduction to Machine Learning
- CSE 547: Machine Learning for Big Data
- CSE 481: NLP Capstone
- CSE 490: Robotics
- CSE 472: Computational Linguistics
- CSE 427: Computational Biology

CS Fundamentals

- CSE 505: Programming Languages
- CSE 507: Computer-aided Reasoning
- CSE 512: Data Visualization
- CSE 526: Cryptography
- CSE 421: Algorithms
- CSE 451: Operating Systems

PROGRAMMING

Proficient

Python (PyTorch, TensorFlow), Java, Git

Familiar

C/C++, Scala, Racket, Ruby

CONTACT

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206.370.2981

github.com/dangitstam

dangitstam.github.io

linkedin.com/in/dang-tam

EXPERIENCE

Software Engineering Intern | XEVO, INC. — Bellevue WA, Summer 2017

- Introduced a trainable natural language understanding engine to solve intent and slot prediction, translating text of spoken utterances into actionable labels
- Integrated NLP tools into Xevo's machine learning framework, including tokenization and text normalization via NLTK, and trainable word embeddings via TensorFlow
- Implemented Alexa Brain's OneNet Joint SLU model (`https://arxiv.org/abs/1801.05149`), which combines orthographic and semantic features via character-level and word-level RNNs to jointly optimize intent and slot prediction

Natural Language Processing Research | NOAH'S ARK — Seattle, WA

- Conducted research in improving semi-supervised text classification using neural and Bayesian methods to enable classifiers to leverage in-domain, unlabelled data
- Advised by Noah Smith

Software Engineering Intern | PAYSCALE, INC. — Seattle WA, Summer 2017

- Created a service using React JS and ASP.NET that suggests online courses from massive open online courseware providers to PayScale users based on their skills
- Developed and conducted A/B tests using VWO and Google Analytics

TEACHING

Graduate Compilers | UNIVERSITY OF WASHINGTON

- Assisted in running the winter 2019 offering of the graduate level compilers course
- Students are taught compiler fundamentals and are equipped to implement a novel domain-specific language of their choice
- Duties involved holding office hours, grading, and guiding students throughout their language implementation

Undergraduate Programming Languages | UNIVERSITY OF WASHINGTON

- Assisted in running the spring 2017, autumn 2017, and autumn 2018 offerings of the *Programming Languages* course, teaching functional programming paradigms using SML/Racket and contrasting their nuances against imperative style programming
- Duties involved holding recitation, grading, and providing extra help to students via office hours

PUBLICATIONS

Variational Pretraining for Semi-supervised Text Classification (*In ACL 2019*)
Suchin Gururangan, **Tam Dang**, Dallas Card, and Noah A. Smith

PROJECTS

Le Traducteur — Summer 2018

- A neural machine translation framework including an implementation of Sutskever et al.'s Sequence to Sequence Learning with Neural Networks (`https://arxiv.org/abs/1409.3215`)
- Built with Pytorch and AllenNLP, provides functionality for training models using parallel datasets with full support for Europarl

GrapAL Verification — Summer 2018

- Query verification for AI2's GrapAL graph database.
- Implements a domain-specific language to model GrapAL and provides equivalence checking between queries through SMT solving