Paul Nguyen

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TECHNICAL SKILLS

Primary Languages: Python, CommonLISP, SPARQL, PostgreSQL, Javascript, D3JS

Secondary Languages: C/C++, ReactJS, Bash, MSSQLServer, HTML, CSS

Tools: PyTorch, Pandas, Matplotlib, D3JS, NumPy, SciPy, Scikit-Learn, NetworkX, JIRA, Jenkins, SVN, Git

INDUSTRY EXPERIENCE

Anaconda Austin, TX
Open Source Software Engineer (Metagraph Team) *Feb 2020—Present*

- Design and build system for efficiently translating between graph data representations on CPU and GPU.
- Implement deep **graph representation learning** methods, e.g. GraphSAGE and node2vec.
- Primary tools included Python, PyTorch, CuGraph, CuDF, Pandas, SciPy, Javascript, and JupyterLab.

Cycorp Austin, TX
Lead Data Integration Engineer & Inference Engine Developer *Feb 2017—Feb 2020*

- Independently rebuilt legacy compiler to translate from our **ontology language** to SQL and SPARQL.
- Built **deep-learning NLP** model for word-sense disambiguation in our **open information extraction** system.
- Collaborated with **ontologists** on code features and vocabulary for our **symbolic formal logic language.**
- Maintained **semantic data representations** in our **knowledge graph** with over 20 million assertions.
- Extended **theorem prover** to distribute work over multiple machines for 18-24x speedup.
- Managed and mentored 3 data integration team members.
- Primary tools included Python, LISP, PyTorch, Bash, Jenkins, JIRA, test-driven development, and Scrum.

University of Virginia Charlottesville, VA
Graduate Researcher

- Designed domain-specific language for image processing program analysis and optimization.
- Implemented language via a source-to-source compiler from Python to C/C++.
- Published in ACM Transaction on Graphics and presented at ACM SIGGRAPH.

SIDE PROJECTS

Anime Recommender System Comparison Github Repo

- Implemented and compared neural network and matrix factorization recommender systems for anime.

Google Play App Review Sentiment Analysis Github Repo

- Evaluate 15 pre-trained transformers models (e.g. XLNet, DistilBERT) for classifying app reviews.

EDUCATION

University of Virginia Charlottesville, VA
Master of Computer Science

Washington & Lee University Lexington, VA
B.S. Computer Science, B.A. Mathematics