

PAUL NGUYEN

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INDUSTRY EXPERIENCE

Data Integration Technical Lead | Cycorp Inc. 2017-Present

Independently rebuilt proprietary query language to SQL legacy compiler.
Optimize SQL for various SQL backends (PostgreSQL, MS SQL Server, etc.).
Build framework for integrating HTTP APIs into our knowledge graph.
Develop deep-learning model (via BERT) for word-sense disambiguation.
Mentor junior developers and direct & manage data team members.
Primary tools were Python, Jenkins, JIRA, LISP, bash, PostgreSQL, and Pytorch.

Graphics Researcher | University of Virginia 2013-2015

Published domain-specific language to automatically optimize image sample selection for trading off output exactness for runtime performance.
Implemented as a source-to-source compiler from Python to C/C++.

Social Networks Researcher | Suffolk University 2012

Studied the impact of social media interaction on user popularity and social network growth on several social media platforms.
Developed Python web crawlers to scrape social media interaction data.

Computer Vision Engineer | Washington & Lee University 2011

Optimize MATLAB-based SVM image classifier via distributed computing and C/C++ & CUDA porting for PASCAL Visual Object Classes Challenge.

MISC. EXPERIENCE

Dance Instructor & Event Organizer | Jazz Dance Education Council 2015-2017

EDUCATION

University of Virginia, Charlottesville, VA 2015
Master of Computer Science
Research Field: Graphics & Vision

Washington & Lee University, Lexington, VA 2013
B.S. Computer Science
B.A. Mathematics

SKILLS

Python
bash
CommonLISP
PostgreSQL
MS SQL Server
C/C++
MongoDB
Firebase
SPARQL
Javascript
ReactJS
ExpressJS
HTML5
CSS

TOOLS

git
SVN
Jenkins
Pytorch
NumPy
scikit-learn
matplotlib
BeautifulSoup
Puppeteer