

# PAUL NGUYEN

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<https://paul-tqh-nguyen.github.io/about/>

## INDUSTRY EXPERIENCE

**Data Integration Technical Lead** | Cycorp Inc. 2017-Present

Independently rebuilt legacy knowledge graph query to SQL & SPARQL compiler.

Optimize SQL for various SQL backends (PostgreSQL, MS SQL Server, etc.).

Built framework for integrating HTTP APIs into our knowledge graph.

Manage Jenkins jobs for new feature integration.

Develop deep-learning model (via pre-trained BERT) for word-sense disambiguation.

Mentor junior developers and direct & manage data team members.

**Graphics Researcher** | University of Virginia 2013-2015

Published domain-specific language to automatically optimize image sample selection for trading off image processing 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

C/C++

PostgreSQL

MS SQL Server

MongoDB

Firebase

SPARQL

CommonLISP

Javascript

ReactJS

ExpressJS

HTML5

CSS

## TOOLS

git

SVN

Jenkins

Pytorch

NumPy

SciKit

matplotlib

BeautifulSoup

Puppeteer