

# PAUL NGUYEN

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<https://bit.ly/paulnguyen>

## 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.).
- Built framework for integrating HTTP APIs into our knowledge graph.
- Manage Jenkins jobs for new feature integration.
- Develop deep-learning model (via 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  
bash  
C/C++  
PostgreSQL  
MS SQL Server  
MongoDB  
Firebase  
SPARQL  
CommonLISP  
Javascript  
ReactJS  
ExpressJS  
HTML5  
CSS

## TOOLS

git  
SVN  
Jenkins  
Pytorch  
NumPy  
scikit-learn  
matplotlib  
BeautifulSoup  
Puppeteer