

Paul Nguyen

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[linkedin.com/in/paul-tqh-nguyen](https://www.linkedin.com/in/paul-tqh-nguyen)

Software engineer with 5 years of experience in software development in Python and CommonLISP.

Looking to transition from the knowledge graph/theorem prover industry to the data science industry.

TECHNICAL SKILLS

- **Expert Languages:** Python, PostgreSQL, MSSQLServer, CommonLISP, SPARQL
- **Intermediate Languages:** Javascript, ExpressJS, ReactJS, Bash, Firebase, MongoDB, C/C++, HTML, CSS
- **Tools:** JIRA, Jenkins, SVN, Git, Linux, Pytorch, Pandas, BeautifulSoup, Matplotlib, NumPy, Puppeteer

INDUSTRY EXPERIENCE

Cycorp

Austin, TX

Lead Data Integration Engineer

Feb 2017—Present

- Independently rebuilt 20-year-old legacy compiler to translate from proprietary logic language to SQL & SPARQL that is now critically relied upon by all projects for client data integration.
- Designed, architected, and implemented framework for integrating HTTP web services into our knowledge graph search engine to enable secure integration with proprietary client data.
- Built distributed graph search and ETL engine based on our knowledge base's logical inference engine to boost runtime performance by 18-24x.
- Developed a deep-learning NLP BERT model in Pytorch & Python for word-sense disambiguation.
- Managed and mentored 3 data team members.
- Primary tools and methods included Python, Bash, CommonLISP, Jenkins CI/CD, JIRA, Pytorch, test-driven development, and Scrum.

University of Virginia

Charlottesville, VA

Graduate Student Researcher

Aug 2013—May 2015

- Developed image processing language to optimally trade off exactness for runtime performance.
- Published in [ACM Transaction on Graphics](#) and presented at [ACM SIGGRAPH](#).
- Implemented as a source-to-source compiler from Python to C/C++.

SIDE PROJECTS

Swing Dance Scoring Web App | ReactJS, ExpressJS, Firebase, Python3

[Github Repo](#)

- Independently developed web application for aggregating Swing Dance scores from multiple judges.
- Front end in ReactJS. Backend in ExpressJS & Firebase. Tests in Python3.

Reskin of arxiv.org | ReactJS, MongoDB, Python3, BeautifulSoup

[Github Repo](#) | [Live Demo](#)

- ReactJS front end. Content scraped via BeautifulSoup + Python3. Content stored via MongoDB Atlas.

EDUCATION

University of Virginia

Charlottesville, VA

Master of Computer Science

Thesis: Image Perforation, Automatically Accelerating Image Pipelines by Intelligently Skipping Samples

Washington & Lee University

Lexington, VA

B.S. Computer Science

B.A. Mathematics

MISCELLANEOUS EXPERIENCE

Jazz Dance Education Council

Richmond, VA

Dance Instructor & Board Member

May 2015—Feb 2017