# Paul Nguyen

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*Software engineer with 5 years of experience in software development in Python and CommonLISP. Looking for opportunities in Irvine or San Francisco areas. Looking to relocate from Austin, TX.*

## 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 & REST APIs 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 neural network (RNN, Word2Vec, attention mechanism) in Pytorch & Python for word-sense disambiguation.
- Managed and mentored 3 data team members.
- Primary tools and methods included Python, PostgreSQL, 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 ExperssJS. Data stored in NoSQL Firebase DB. Tests in Python3.

**Reskin of arxiv.org** | ReactJS, MongoDB, Python3, BeautifulSoup                Github Repo | Live Demo
- ReactJS front end. Web scraper via BeautifulSoup + Python3. Data stored in NoSQL DB 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*