PAUL NGUYEN

Data integration and knowledge graph search engineer looking for opportunities in Austin, TX.

CONTACT

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EDUCATION

Master of Computer Science
University of Virginia
2013 - 2015

B.S. Computer Science
B.A. Mathematics
Washington & Lee University
2009 - 2013

SKILLS

Languages

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

Tools

JIRA	SVN
Pytorch	matplotlib
Scikit-learn	NumPy
BeautifulSoup	Puppeteer

PROFESSIONAL EXPERIENCE

Lead Data Integration Engineer
Cycorp / Austin, TX / Mar 2017 - Present

Cycorp is an Artificial Intelligence company focused on natural language processing and knowledge graph search.

- Independently rebuilt 20 year old legacy compiler to translate from our proprietary logic language to SQL & SPARQL.
- Designed & implemented framework for integrating data from web services into our knowledge graph search engine.
- Built distributed knowledge graph search and ETL engine based on our knowledge base's logical inference engine.
- Developed deep-learning model (via pre-trained BERT) for data-driven word-sense disambiguation.
- Managed and mentored junior developers and data team members.
- Primarily tools included Python, Jenkins, bash, JIRA, PostgreSQL, LISP, and Pytorch.

Graduate Graphics Researcher
University of Virginia / Charlottesville, VA / Aug 2013 - May 2015

- Designed & implemented domain-specific language to optimally trade off image processing exactness for runtime performance.
- Published in ACM Transaction on Graphics.
- Presented at ACM SIGGRAPH.
- Implemented as a source-to-source compiler from Python to C/C++.

NSF / REU Social Networks Researcher
Suffolk University / Boston, MA / Jun 2012 - Aug 2012

- Analyzed impact of social media interaction on user popularity and social network growth.
- Developed Python web crawlers to scrape social media interaction data. Visualized data in d3.js.

MISCELLANEOUS EXPERIENCE

Dance Instructor & Board Member
Jazz Dance Education Council / Richmond, VA / May 2015 - Feb 2017

SIDE PROJECTS

Reskin of arxiv.org | Github Repo | Live Demo
Reskin via ReactJS, MongoDB, Python3, BeautfulSoup, HTML, & CSS.

Swing Dance Scoring Web App | Github Repo
Independent app built in ReactJS, ExpressJS, Firebase, & Python3.