Duy Nguyen

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SUMMARY

Software Engineer with good knowledge about algorithms, data structures and database systems. Proficient in Perl and Python. Determine to be a world class software engineer in near future.

EXPERIENCE

- **Worldquant LLC** — Aug 2018 – Present
  Software Engineer
  - Implementing a web-based interface to provide a better way to create ETL configuration of datasets for Business Analyst team. This helps the BAs to build the configuration for only 3-5 days per dataset instead of weeks doing analyst and testing the configuration
  - Took care of all the RPC calls between components of the prototype of next-gen data infrastructure
  - Implemented new transformation tool using Spark which convert raw data to internal format which is much faster. It also reduces lots of manual work of my team
  - Frameworks/Tools: **Facebook Thrift**, **Spark**, **ReactJS**, **Mobx**, **Protobuf**
  - Languages: **Python**, **Scala**, **Javascript**, **C++**

- **Worldquant LLC** — Aug 2017 – Jul 2018
  Web Developer
  - Maintained and improved internal applications, which help Researchers and Portfolio Managers manage their tasks, strategies and alphas easily
  - One of the internal webs is able to serve few hundred API heavy-computing requests per second
  - Wrote an ORM-like layer which converts JSON parameters to SQL query
  - Implemented an in-house survey system based on LimeSurvey
  - Frameworks/Tools: **Apache HTTP Server**, **MySQL**, **ReactJS**
  - Languages: **Perl**, **Javascript**

ACHIEVEMENTS & AWARDS

- **Ranked 9th in Vietnam National Olympiad in Informatics** — 2013
  - Competed individually to solve 6 algorithmic problems using Pascal

EDUCATION

- **University of Engineering and Technology, VNU Hanoi** — Aug. 2013 – May. 2017
  Bachelor of Computer Science; GPA: 3.36/4.0
- **Self-learning courses**
  - CMU - Database systems – https://15445.courses.cs.cmu.edu/
  - Princeton University - Distributed System – https://www.cs.princeton.edu/courses/archive/fall16/cos418

SKILLS

- Languages: **Python(proficient)**, **Perl(proficient)**, **C++(basic)**, **Javascript(basic)**
- Libraries: **Thrift**, **MySQL**, **ReactJS**, **Mobx**, **Protobuf**