Derek Pham

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Availability for internships/co-ops: Jan. - Aug. 2020

🎓 EDUCATION

Northeastern University, Boston, MA   Sept. 2016 - present
College of Computer and Information Science   Expected graduation: Dec. 2020
GPA: 3.97/4.0

👥 EXPERIENCE

Yelp, San Francisco, CA   Jun. 2019 - Aug. 2019
Sofware Engineer Intern - Metrics Data

- Created a batch post-processor tool for Yelp's data lake, processing half a Terabyte per batch daily
- Simplified Redshift and Athena query patterns and improved query time by more than 80%, enabling much quicker business decision making
- Technologies used: Python, PySpark, AWS Glue, Amazon S3, Apache Parquet

HubSpot, Cambridge, MA   Jan. 2019 - May. 2019
Software Developer Co-op - Connected Email Backend

- Migrated 2 Redis tables with hundreds of Gigabytes of data to HBase, saving around $100,000 a year
- Redesigned the email scheduling system using MySQL, HBase and Amazon S3, which solved 5 different bugs that caused long-lasting Jiras
- Enforced user's permissions on 12 different microservices, improving security of HubSpot's public API
- Technologies used: Java, DropWizard, Hadoop, HBase, Kafka, MySQL

PowerAdvocate, Boston, MA   Jan. 2018 - Jun. 2018
Software Developer Co-op - Data As a Service Team

- Built from the ground up and completed the Customer Service Report (CSR) product, saving hundreds of man hours every quarter to build reports
- Led research effort to find the main database for CSR, and decided that PostgreSQL was the best fit
- Designed a Continuous Delivery framework for CSR, allowing deploying to production with 1 command
- Technologies used: Java, Spring, Hibernate, Gradle, PostgreSQL, Ansible, JavaScript, jQuery

📂 PROJECTS

doodle
Research project with Northeastern's Network Science Department

- Developed an app in Django used to study how search ranking affects personal and political opinions
- Designed different CSS skins to mimic Google and Facebook

nualt
An easy-to-use alternative to Northeastern's career website

- Created a web crawler in Python to mine hundreds of job postings on Northeastern's career website
- Built a simpler and faster website to display job postings using Kotlin, Spring Boot and jQuery

⚙ SKILLS

Languages:	Java, Python, Kotlin, Racket, Javascript
Data Technologies:	PostgreSQL, HBase, Kafka, Hadoop, Spark
Tools:	Spring, Hibernate, Gradle, Django, jQuery, Git, SVN, Ansible
Others:	Linux, Agile, Pair Programming