

Derek Pham

☎ (802) 503-5089 • ✉ derekpham67@gmail.com • 🐱 [derekpham](#) • [derek-pham97](#)

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

🎓 EDUCATION

Northeastern University, Boston, MA
College of Computer and Information Science
GPA:

Sept. 2016 - present
Dec. 2020
3.97/4.0

⚙️ SKILLS

Languages: Java, Python, Kotlin, Racket, JavaScript
Data Technologies: PostgreSQL, HBase, Kafka, Hadoop, Spark, Athena, S3, Glue
Tools: Spring, Hibernate, Django, Git, Ansible, DropWizard

👤 EXPERIENCE

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

- Created a batch post-processor tool for Yelp's data lake with Spark and AWS Glue, processing half a Terabyte per batch daily
- Greatly simplified Redshift and Athena query patterns and improved query time by more than 80%, enabling much quicker and more accurate decision making for business analysts and data scientists
- 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 through 1 command
- Technologies used: Java, Spring, Hibernate, Gradle, PostgreSQL, Ansible, JavaScript, jQuery

🐱 PROJECTS

freddie *A music recommendation app*

- Developed a simple web app in Spring Boot that recommends songs to users based on their music history
- Powered the recommendation and storage engine using Neo4J

doodle *A 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