

# Derek Pham

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## 🎓 EDUCATION

Northeastern University, Bachelor of Science in Computer Science Sept. 2016 - Apr. 2021

GPA: 3.97/4.0

Coursework: Networks and Distributed Systems, Large Scale Data Storage, Computer Systems  
Object Oriented Design, Algorithms, Programming Languages, Artificial Intelligence

## ⚙️ SKILLS

Languages: Java, Python, Kotlin, JavaScript, Haskell

Systems: PostgreSQL, HBase, Kafka, Hadoop, Spark, Athena, S3, Glue, Neo4j

Others: Spring, Hibernate, Django, Git, Ansible, DropWizard

## 👤 EXPERIENCE

Yelp, San Francisco, CA Jun. 2019 - Aug. 2019

*Software Engineer Intern - Data Infrastructure*

- Created a batch post-processor tool for Yelp's data lake with Apache Spark and AWS Glue, processing half a Terabyte per batch daily
- Simplified Athena and Redshift query patterns, and improved query performance with said tool by around 500x, enabling much quicker decision making for business analysts and data scientists

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 using Apache Hadoop, 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 permission checking on 12 different microservices, improving security of HubSpot's public API

PowerAdvocate, Boston, MA

Jan. 2018 - Jun. 2018

*Software Developer Co-op - Data As a Service*

- Built from the ground up and completed the Customer Service Report (CSR) product in Spring and Hibernate, saving hundreds of man hours every quarter to build reports
- Designed a Continuous Delivery framework for CSR using Ansible, allowing deploying to production through one simple command
- Led research effort to find a suitable database for CSR, and decided that PostgreSQL was the best fit

## 🐱 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 engines 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