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

Candidate for a Bachelor of Science in Computer Science, Minors in Mathematics and Physics   Dec. 2020

GPA: 3.97/4.0

👥 EXPERIENCE

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

Sofware Engineer Intern - Data Metrics

- Creating a batch post-processor tool for Yelp's data lake, enabling better business decision making due to more accurate post-processed data
- Technologies used: Python, PySpark, AWS Glue, Amazon S3

HubSpot, Cambridge, MA   Jan. 2019 - May. 2019

Software Developer Co-op - Connected Email Backend

- Migrated 2 Redis databases to HBase, saving around $100,000 a year
- Redesigned the email scheduling ecosystem to incorporate MySQL, HBase and Amazon S3, which solved 5 different bugs that caused painful and long-lasting Jiras
- Communicated with other teams to scope REST endpoints for approximately 10 different projects, improving security of HubSpot's APIs.
- Technologies used: Java, DropWizard, Hadoop, HBase, Kafka, MySQL

Northeastern University, Boston, MA   Sept. 2017 - present

Research Assistant for Christo Wilson and Ron Robertson - Network Science Department

- Creating website in Django studying how search ranking affects personal and political opinions
- Designing application's entire SQLite database schema to store subjects' information
- Configuring application to assign each subject a random treatment of pre-ordered search results and track browsing activities
- Developing frontend with ability to switch between different CSS skins to mimic sites such as search sites, social media sites, and job posting sites
- Technologies used: Python, Django

PowerAdvocate, Boston, MA   Jan. 2018 - Jun. 2018

Software Developer Co-op - Data As a Service Team

- Built upon and delivered completed product, Customer Service Report (CSR), shortening Customer Success team's time to produce reports by around 50 times
- Developed all required features virtually from scratch for 3 different kinds of reports, in Spring and Hibernate
- Researched database providers and chose CSR's database to be PostgreSQL
- Technologies used: Java, Spring, Hibernate, Gradle, PostgreSQL, Ansible

🐙 PROJECTS

nualt   Ongoing

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

- Creating a browser extension in Javascript to extract information on every visited job page on Northeastern's career website (and potentially other job sites)
- Building REST API to store and retrieve job information using Kotlin and Spring Boot
- Designing simple and easy-to-use front end in Javascript using jQuery and JsGrid