MOLLY CHEN

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mollymolichen.com

EDUCATION

DUKE UNIVERSITY

BS IN COMPUTER SCIENCE Durham, NC | 2015 - 2019

UNIVERSITY OF EDINBURGH

INFORMATICS Edinburgh, Scotland Spring 2018

SKILLS

LANGUAGES

Java, HTML, CSS, JavaScript, TypeScript, Python, C/C++

TOOLS

Spring MVC, Angular, Flask MySQL, Postgres, DynamoDB UNIX, Shell, Ubuntu Git, JUnit, NLTK, Postman, SAS AWS, Serverless, JSON, XML Interests: Legal tech, health tech

COURSEWORK

DUKE UNIVERSITY

Intro to Algorithms
Discrete Math (TA)
Computer Architecture
Intro to Databases
Operating Systems
Computer Security

UNIVERSITY OF EDINBURGH

Data Structures & Algorithms Software Testing Natural Language Processing

LINKS

GITHUB

@mollymolichen

LINKEDIN

@mollymolichen

WEBSITE

www.mollymolichen.com

EXPERIENCE

QUANTWORKS SOFTWARE DEVELOPMENT INTERN

JUNE 2018 - AUG 2018 | RESEARCH TRIANGLE PARK, NC

- Continued early development for YouPlea, an online portal for managing court orders and plea deals.
- Worked on backend, incorporating TypeScript with AWS system, Serverless, REST API, DynamoDB and S3 object retreival.

SAS SOFTWARE DEVELOPMENT INTERN

MAY 2017 - AUG 2017 | RESEARCH TRIANGLE PARK, NC

- Added new features to Project Data Sphere, a cancer research platform that facilitates collaboration among researchers.
- Improved interface and data on 50k+ patients are used by over 200 data providers and healthcare professionals worldwide.
- Created interface to update system properties directly without requiring manual data entry or system restart.

DATA+ ANALYTIC DEVELOPMENT INTERN

MAY 2017 - AUG 2017 | DURHAM, NC

- Developed global node network from 10,000+ electronic health records from Duke University Medical Center to predict disease risk based on patient medical history.
- Created network using visualization software (Gephi, SigmaJS) and integrated HTML/CSS/JavaScript.
- Translated complex user queries into ICD-9 medical codes using natural language processing algorithms.

PROJECTS/ADVOCACY

LEND A HAND CO-FOUNDER, SOFTWARE ENGINEER

- Chrome extension using NLTK sentiment analysis on social media corpus to detect whether a user is self-harming.
- Beta testing with student ambassador from American Foundation for Suicide Prevention (AFSP) to improve use.
- Raised \$1500 for AFSP via business sponsorship, \$1000 from fun run.

PEER AVATAR COACHES RESEARCHER

- Bass Connections research project on the use of peer-led virtual avatars to improve access to mental health treatment.
- Beginning development off Sidekicks application to connect struggling college students to peer health coaches via mobile app.

MEMEMATCH SOFTWARE ENGINEER

- Dating app that matches users based on similar meme preferences.
- Used rank-based overlap (RBO) algorithms, Postgres and Flask, deployed with Heroku.