

Molly Chen

Software Developer

Interested in healthcare technology

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Profile

Results oriented, well-rounded college student interested in software development within healthcare technology. Passionate about big data, personalized healthcare, mental health advocacy and improving the patient healthcare experience.

Technical Skills

Listed in relative order of proficiency:

Programming languages:

Java, C, Python

Web development: HTML, CSS, JS

Query languages: MySQL, PostgreSQL

Web frameworks: Spring, React, Flask

Other: Gephi, SigmaJS, Git

Projects

- Research on genetic link between nucleotide polymorphisms and depression
- React website for Duke Alpha Phi Omega
- Dating app matching users through memes
- Personal website
- Interest in making safe-word filter to identify harmful posts on social media or a chatbot that promotes mental health
- Webmaster for Houston hardware company

Experience

Software Developer Intern, SAS Institute

May-Aug 2017

- Added new features and summary statistics interface for Project Data Sphere, a collaborative platform for advancing cancer research.
- Displayed user and contribution data on admin dashboard page.
- Created interface to update system properties without server restart.
- Participated in annual Intern Expo, showcasing work to SAS employees.

Data+ Research, Duke Information Initiative

May-Aug 2016

- Analyzed electronic health records (EHR) from Duke University Medical Center to assess patient risk based on previous diagnoses and at-risk demographics.
- Used network visualization software to create a global node network of patient data and natural language processing to translate queries to ICD-9 codes.

CS 230 Teaching Assistant

Aug 2016-May 2017

- Graded assignments and led office hours for Discrete Math students.

Marketing Lead, HackDuke

Aug 2016-May 2017

- Maintained outward-facing appearance of Duke's student-led hackathon
- Created weekly newsletter in partnership with tech workshops and clubs on campus and monitored ListServ via MailChimp to 900+ people.

Resident Assistant, UT Computer Science

May-June 2015

- Mentored high-school girls under First Bytes CS and STEM summer camp.

Co-founder, Preventing Social Media Suicidality Aug 2014-May 2015

- Devised community intervention to inform public on teen suicide prevention and how social media can have a contagious effect on at-risk teens.
- Raised \$2500 for suicide awareness, raised interest in making safe-word filter to reduce content on social media depicting trigger warning content.

Education

DUKE UNIVERSITY - DURHAM, NC

BS in Computer Science, Minor in Psychology

2015-2019

Data Structures/Algorithms, Computer Architecture, Operating Systems, Database Systems, Computer Security, Statistical Methods in Psychology, Internet Protocols, Personalized Healthcare, Marketing

References

Dr. Salman Azhar, Visiting Associate Professor, Duke Computer Science
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Brian Durham, Advanced Analytics Project Manager, SAS Institute
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Annette Walter, Computer Science Instructor, Friendswood High School
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