MOLLY CHEN

mollymchen@gmail.com
https://github.com/mollymolichen

EDUCATION

DUKE UNIVERSITY
BS IN COMPUTER SCIENCE
Durham, NC | 2015 - 2019

SKILLS

Azure DevOps, ASP.NET, C#
Kusto, LINQ, AppInsights
Vue, Angular, AWS
Fullstack engineering

MENTORSHIP

Duke Technology Scholars alumni
Rewriting the Code network
Microsoft Early in Career lead
Microsoft Growth Groups member

COURSEWORK

DUKE UNIVERSITY
Intro to Algorithms
Discrete Math (TA)
Computer Architecture
Intro to Databases
Operating Systems
Computer Security
Information and the Internet
Human Computer Interaction

UNIVERSITY OF EDINBURGH
Data Structures & Algorithms
Software Testing
Natural Language Processing
Marketing Technical Products

LINKS

GITHUB
@mollymolichen

LINKEDIN
@mollymolichen

PORTFOLIO
http://mollymolichen.github.io

EXPERIENCE

MICROSOFT   SOFTWARE ENGINEER
AUG 2019 – PRESENT | REDMOND, WA

- Developed performant features on a custom, model-driven server-side framework that supports all of Microsoft's complex cataloguing data for commerce ingestion platform.
- Unify the first- and third-party ingestion experiences by migrating to partner hosted services.
- Write queries to monitor system health, respond to on-call duties, and ensure system is scalable during high traffic publishes.
- Collaborate with users across business tenants and designers to make UI controls more intuitive during data merging, differencing, and data publish.

QUANTWORKS   SOFTWARE DEVELOPMENT INTERN
JUNE 2018 – AUG 2018 | RESEARCH TRIANGLE PARK, NC

- Implemented early backend functionality for YouPlea, a case management system based on AWS (Lambda, DynamoDB, Cognito) to bring equity and efficiency to plea deals.
- Wrote 75% of prosecutor portal's REST API with AWS Lambda for our first client.
- Migrated middleware codebase into Lambdaless, wrote 100+ tests in Mocha/Chai.
- Refactored DynamoDB schema/JSON to reduce concurrent Lambda executions by 25%.

SAS INSTITUTE   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, using Spring MVC and Apache Tomcat.
- Improved interface and data on 50k+ patients by condensing statistics and admin dashboard into an easy-to-use format compatible across 200 data providers.
- Created new admin page with jQuery to edit system properties directly, eliminating need to restart Tomcat server or to risk manually editing the data.

DATA+   RESEARCH INTERN
MAY 2016 – AUG 2016 | DURHAM, NC

- Synthesized data from 10,000+ electronic health records from Duke University Medical Center to predict a patient's disease risk based on medical history.
- Created web app of interactive node network with patient demographics and disease risk using Gephi, SigmaJS, Apache Tomcat.
- Translated complex user queries into ICD-9 medical codes using natural language processing algorithms, drastically improving usability.

PROJECTS

ZINGO   LEAD DEVELOPER | JAN 2019 – JUN 2019
- Lead developer on a web app used by solo travelers to meet new people while abroad.
- Prototyped interfaces, iterated according to business needs, implemented functionality using Firebase, Vue, Vuetify.

LEND A HAND   CO-FOUNDER, SOFTWARE DEVELOPER | AUG 2014 – DEC 2017
- Chrome extension using NLTK sentiment analysis on social media corpus to detect whether a user is self-harming. Created at HackDuke 2017 (organizer for HD 16').
- Conducted beta testing with student ambassador from American Foundation for Suicide Prevention (AFSP) to improve usability.
- Raised $1500 for AFSP via business sponsorship, $1000 from fun run.

TRANSLATE TRANSIT   SOFTWARE DEVELOPER | AUG 2018 – PRESENT
- Mobile app that helps non-English speakers navigate a city by providing translations.
- Designing prototype in InVision, using Microsoft Text Translate API for functionality.