

Meryl Wang

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EDUCATION

Massachusetts Institute of Technology (MIT)

Bachelor of Science in Computer Science

Cambridge, MA

Aug. 2016 – May 2020

EXPERIENCE

Software Engineer

Jun 2020 – Jan 2023

Ovation.io: SaaS Laboratory Information Management System (LIMS)

Cambridge, MA

- Managed application infrastructure, network, and deployment (CI/CD) pipeline using AWS, Terraform, Github Actions, and Auth0 as part of the DevOps team
- Developed on full-stack LIMS product using Ruby on Rails, EmberJS, and MySQL
- Designed and implemented Frontend UI of the data querying product using React and TypeScript
- Responded to emergencies and client requests as on-call support engineer
- Collaborated with team of developers and product manager in company-wide hackathon and won first-place

Content Contributor

Sept - Dec 2019

Kite.com: Using AI to help developers write code

San Francisco, CA

- Contributed to Kite Answers, a collection of high-quality answers to curated programming questions
- Authored around a hundred code solutions with concise explanations in Python

Software Engineer Intern

Jun - Aug 2019

Ovation.io

Cambridge, MA

- Designed and implemented batch upload and download features for LIMS UI
- Implemented a re-usable CSV validator to validate end-user's import files and display helpful error messages

Software Development Intern

Jun - Aug 2018

ConquerX: Metachip for Early Cancer Detection

Boston, MA

- Data-scraped selected biomarker databases via Python Selenium
- Designed and implemented an optimal database structure using MongoDB to store & retrieve scraped data
- Built an interactive web-app that presents biomarkers based on user-selected criteria (such as cancer type), helping the lab curate biomarkers that may identify major cancers

Bioinformatics Research Intern

Jun 2015 - Aug 2017

National Cancer Institute (NCI)

Fort Detrick, MD

- Studied the effects of antibody humanization on physico-chemical properties of antibody-antigen protein-protein interactions
- Applied UNIX Shell scripts to analyze protein models via bioinformatics software
- Published research article describing results of study that is cited in further antibody design studies

LEADERSHIP

Technical Director

Jan 2018 - Jan 2019

MIT Asian Dance Team

Cambridge, MA

- Managed technical logistics for bi-annual showcases, coordinating space, staffing, lighting, audio equipment, etc. for a team of 300+

TECHNICAL SKILLS

Programming Languages: Python, SQL (MySQL), JavaScript, Ruby, Java

Frameworks: React, TypeScript, EmberJS, Ruby on Rails

Developer Tools: Git, Github Action, Docker, AWS, Terraform, Auth0, DataGrip

DevOps Tools: Terraform, AWS ECS, EC2, S3, CloudWatch

Languages: English, Chinese

PUBLICATION

Wang M, Zhu D, Zhu J, Nussinov R, Ma B. Local and global anatomy of antibody-protein antigen recognition. *Journal of Molecular Recognition*. 2017;31(5).