



Qiao Mu


Contact

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Skills

- Web Development
 - Python, Node.js
 - React, Webpack
 - HTML, CSS, JavaScript
 - SASS, Bootstrap
- Database
 - Postgres(SQL)
 - MongoDB(NoSQL)
 - AWS
- Analytics and Visualization
 - R, SAS
 - Tableau, Shiny, SpotFire
- Other
 - Git, Statistics, Full-stack

Education

Full-stack Engineer BootCamp
Certificate
Procareer Apr 23 - Current

Front-end Web Developer
Nano-Degree
Udacity Oct 21 - Current

University of Michigan
MPH, Public Health
Ann Arbor, MI, USA Sep 13 - Apr 15

Guangzhou Medical University
MD
Guangzhou, China Sep 08 - Jun 13

Creative and motivated programmer with two years of front-end development experience in application design, developing new functionalities, and six years of experience in statistics analysis and visualization. Leverage analytical skills and strong attention to detail in order to deliver efficient web solutions, build new websites from start to finish, provide technical knowledge and expertise, and ability to complete projects while working collaboratively with cross-functional teams or independently.

Work Experience

Manager, Research Scientist

COVID-19 Vaccine Team, Pfizer Inc, New York, NY, USA

Sep 21 – Sep 22

- Led and designed a data evaluation system to support all Pfizer researchers, including website design, data visualization, automatic quality assurance and cross-validation. This tool has helped save millions of dollars and safeguard the research team's reputation by detecting critical errors in vendor data
- Built a tool to track state-of-the-art covid-19 publications, allowing researchers to visualize study-trends, dominant methods and conclusions, which has significantly expanded research insights and business scopes of covid-19 for the company
- Developed a brand new team portfolio website with a ticket system to monitor and display study showcases, code versions and project progress. This feature enables team members to ask questions and has resulted in a 30% decrease in inquiry management while simultaneously boosting stakeholder satisfaction
- Led a migration of core programs from SAS to AWS SQL as part of a major refactoring

Senior Programmer, Subject Matter Expert

STATinMed Inc., Ann Arbor, MI, USA

Nov 17 – Sep 21

- Led a team to develop scalable SAS macros for rapid data processing and report auto-generation, boosting efficiency for deliverables from biweekly to weekly timeline
- Designed specifications for data ingestion and standardization that reduced debugging time by 60%, which had been widely accepted as a standard quality control procedure within the company
- Research and deploy data engineering and machine-learning techniques (Naïve-Bayes, deep learning, decision tree, Catboost) to improve prediction performance on health outcomes

Application Programmer

University of Michigan, Ann Arbor, MI, USA

Oct 15 – Nov 17

- Developed a release testing application via bridging SAS and VBA that validate and format health insurance data and report, decreasing processing time by 75% in production phase

Project Experience

Face Recognize Application

- Used React.js on the frontend and a RESTful API server with Node/Express.js on the backend, and applied Postgres to securely store user information with hashed passwords
- Created session management with authenticated routes and deployed on Render

Mini Yelp

- Built a full-stack RESTful app with Express.js that allowed users to register, find, add, modify and comment on campground sites with proper error handling and validation both from client side and server side
- Designed and implemented MongoDB infrastructure to store user information such as username, comments and hashed passwords securely in the database
- Used Cloudinary API to store pictures and Mapbox API to add geographic locations

Travel Planner

- Designed a responsive website using CSS3, SASS, Flexbox and CSS Grid, JavaScript and HTML5. Build competency automating application build and deployment using Webpack (dependency management) and improving offline performance of websites using Service Worker