Michael W. Lu

Software Engineer

ABOUT ME

Developer based in New York, self-taught with a background in finance;

Inspired to build cutting-edge applications with clean design and cleaner code;

(he/him)

SKILLS

Technologies
JavaScript, TypeScript, React, Redux, Next.js, PostgreSQL, Microsoft SQL Server, REST API, GraphQL, HTML/CSS, Node.js

Tools
Git, AWS, Docker, Jest, Webpack, Figma, Jira

Certifications
Scaled Agile SAFe® 5 Practitioner

Languages
English, Mandarin Chinese (conversational)

Interests
Weightlifting, menswear fashion, cooking, mixology, consumer electronics

EDUCATION

New York University // New York, NY
Stern School of Business
B.S. in Finance & Economics, 2013

CONTACT

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EXPERIENCE

Spatial Front, Inc. // Remote
Large-scale IT solutions provider to federal government clientele
Software Engineer, USDA Conservation Programs
Feb 2021 – present

- Augment front end of the Field Office Technical Guide—a conservation practices document repository—delivering 21 feature-level enhancements to date through continuous integration & deployment within a Scaled Agile development lifecycle, including:
  - Conversion from legacy Foundation CSS to custom Bootstrap-based framework, updating visual design and accessibility features
  - Client-side table pagination, minimizing user delays due to successive API calls and enabling zero-latency sorting & filtering
  - Nested routing for sub-directory URLs and improved redirect behavior, introducing view-specific links and bookmarks
- Spearhead a codebase modernization initiative by refactoring and decomposing class components to functional versions, abstracting logic into custom hooks, and streamlining state management, resulting in increased modularity (78% reduction in average component lines of code) and testability (73 new unit tests to date)
- Advance internal DevOps by building an application to automate AWS infrastructure provisioning, servicing 5 teams and 100+ members
- Team hackathons: April 2021—2nd place of 5; July 2021—2nd place of 8; October 2021—1st place of 7

Self-Learning & Freelance Projects // New York, NY
Apr 2020 – Jan 2021

- Expanded development skillbase through ideation, design, and implementation of full-stack web applications, including:
  - Definitely Not Reddit: Reddit clone featuring user accounts, content posts (text, embedded images & videos, links with meta previews), upvotes/downvotes, and comments
  - Melody Chuang Coaching: Life-coaching business website with email-enabled contact forms and social media & rich content widgets

The Recurse Center // New York, NY
Community-driven, competitive-admission educational retreat
Programming Sabbatical
Jan 2020 – Mar 2020

- Developed technical programming ability through self-directed learning
- Collaborated on various educational and creative projects (e.g. a birthday validator package that references Wikipedia for the oldest living person)

NYU Langone Health // New York, NY
Senior Financial Analyst, Neuroscience Institute
Mar 2014 – Jan 2020

- Sustained the institute's 6-year funding expansion from $20M to $40M through financial management of operational and research activities
- Dramatically enhanced financial oversight and blueprinting capabilities by pioneering a comprehensive in-house data-modeling system