Mark Lam

+1 (661) 478-9651
marklam.designs@gmail.com

Brooklyn, New York

markofthelam.com
github.com/emceelamb

Professional Experience

Sept 2022–Present	**CAPITOL AI**

Software Engineer, New York City

- Bootstrap greenfield project architecture using Next.js, e2e testing with Cypress, and CI/CD using Github workflows to ensure stable release environments during rapid iteration
- Develop custom data visualization components using d3, Visx, and Vega-Lite and web text editor
- Contribute to a design system component library using TypeScript, Storybook, and Vanilla Extract and collaborate with design team for high-fidelity implementations of Figma designs
- Develop GPT enabled tools for modifying web visualizations
- Review pull requests, mentor product engineering team to meet project delivery timelines

Aug 2021– June 2022

VECTOR SPACE BIOSCIENCES
Data Visualization & Product Engineer, New York City

- Designed and developed a data driven web app with Next.js/ TypeScript with FastAPI to demo a near-real-time NLP pipeline for an investor conference which led to immediate investment leads
- Productized a demo app by implementing a user account system using Django Rest Framework authentication to Next.js app and implementing a Stripe subscription
- Conducted user interviews, designed mockup in Figma, and created a component library for interactive graphs using D3.js and three.js to visualize complex datasets in the biology and finance domains
- Developed microservice Docker development environment and deployment including FastAPI, Next.js, Certbot, Django, and NGINX on GCP Cloud Compute Engine to simplify onboarding of new team members

Jan 2021– Apr 2022

UNITED NATIONS
Data Analytics - Front-End Developer, New York City

- Developed a data driven front-end React app for an open data platform to enable UN staff to securely share data to the public and internal colleagues, collaborating with designers, data analysts, and security teams– The prototype was successfully used to fundraise $1M for the continuation of the project and was nominated for a Secretary General Award for workflow innovation
- Implemented authentication using OAuth and Azure Active Directory to restrict access to privileged datasets and connect with UN's internal directory and deployed to Azure Web Services

Oct 2020– April 2022

CODECADEMY
Content Contributor, New York City

- Developed course content for Linux, full-stack Django development, web security, and creative coding.
- Contributed to web security and authentication lessons courses on OAuth and Passport.js

Dec 2015– Present

MARK OF THE LAM
Freelance Developer, New York City, Ho Chi Minh City, Los Angeles, Berkeley

- Design and develop websites for business ranging from personal artists to independent publishing houses to promote products, events and services with clients located in Israel, Qatar, Hong Kong, and United States
- Work with clients to define scope of work and create development timelines for deliverables

Technical Skills

- Full Stack Web Development - React, VueJS, D3.js, three.js, Django, Flask NodeJS, Figma, Postgresql
- Operations - *NIX System Administration, Git, Heroku, Docker, Wireshark, GCP, Azure
- Hardware - Raspberry Pi, Arduino, ESP8266, WiFi

Education

Fall I 2020

Participant
Recurse Center, New York City

May 2020

Interactive Telecommunications, Master of Professional Studies
New York University, New York City

Dec 2015

Media Studies & Art Practice, Bachelor of Arts
University of California, Berkeley, Berkeley

May 2013

Graphic Design, Associate of Arts
College of the Canyons, Valencia