MAPC Summer Fellowship 2023

Designing Digital Tools And Websites At MAPC

Coding it Forward Fellow ► Andrew Liu



coding it forward >

Introduction

As you all probably know, i'm Andrew Liu! I'm currently completing my Computer Science Masters at NYU. On top of Computer Science, I have a background in Game Development and Illustration

This summer i've been working closely with Jon and Stephen as part of the digital services team doing full-stack development work as a Coding it Forward fellow.

A little about the projects that I've worked on during my 8 weeks here so far and a general overview of the experience!

Projects

- ► Trailmap v4.0
- MakingSpace

Perfect Fit Parking

Muni Emoji

Rental Listings DB

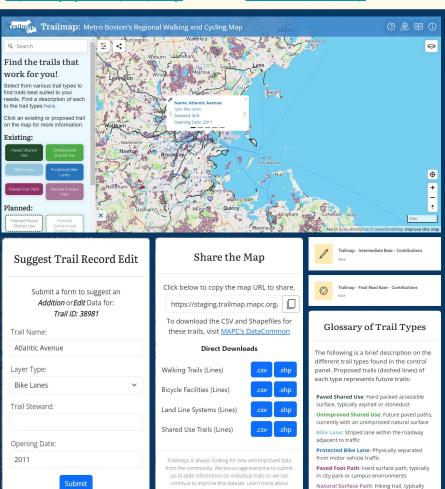
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https://trailmap.mapc.org/

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► Trailmap v4.0

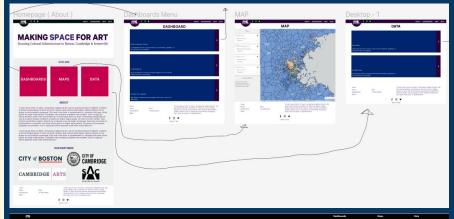
- Responsive Design
- Accessibility Design
- Content Fixes
- User Flow redesign
- Added data labeling, selection, and suggestion features
- Multi-layer Airtable Base architecture for serverless secure public data entry

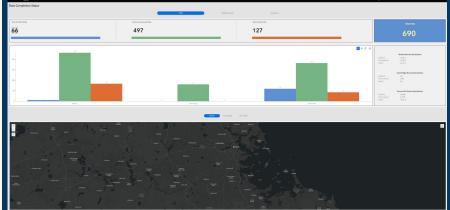




MakingSpace

- Esri Experience Builder, built a dashboard for the MakingSpace web prototype
- Made UI/UX design mockup for MakingSpace using Figma
- Repurpose data enriching script (credits: Jon) to alter data and work around Experience Builder Data Visualization limitations

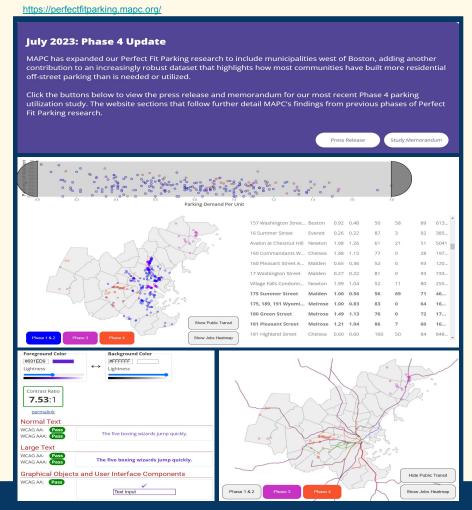






► Perfect Fit Parking

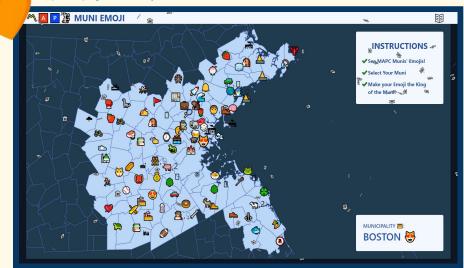
- Styling, Accessibility Design updates
- Refactor website's D3.js visualization
- Added features to improve differentiating phase data; Added new data; Viz bug fixes; phase filtering
- Collaborated with other teams to update data on datacommon, get viz data confirmed, content updates and reviews

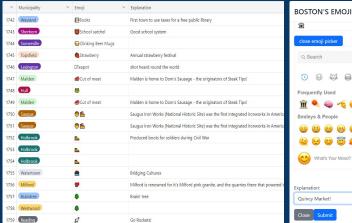


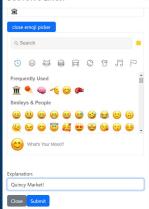
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► Muni Emoji www www

- Started a creative coding project for internal community engagement and discussion over a fun light-hearted topic of international emoji day!
- Introduce creative coding/game development concepts such as 'Juice'!
- Serverless architecture, single static React site with an Airtable base to store data
- Reactive and Accessible design!
- Published to the public! With an audience ranging from MAPC to Legislators!







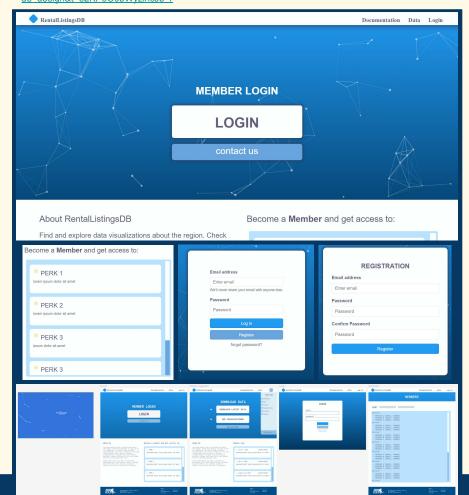


► RLDB Web Portal (Design + Build)

- Start codebase from scratch! Developing new development practices and infrastructure standards!
 - Built a template stack for JS server and frontend! (NextJS, PostgreSQL, Prisma, React, StyledComponents)
 - CircleCl for CI/CD deployment practices!
- Designed UI/UX mockup in Figma
- Implemented Frontend website
- Setup user account authentication with Browser Session data and Local postgres server integration



https://staging.rental-listings.mapc.org/registration https://www.figma.com/file/BtqatpnjQ2tQNWOUENYSJu/RLDB-TAP?type=design&node-id=0%3A1&mode=design&t=e2KP9O0bWyzinc.lb-1



Reflection

As part of this fellowship I was given the opportunity to explore several different platforms, tools, and practices I've never used, through the perspective of MAPC.

New Tools / Practices (!):

- Airtable
- Mapbox
- CircleCl
- Sass
- Esri
- SSH Deploy Workflow

Overall it was really eye opening getting to see the amount of hard work that gets put in behind the scenes!

Fast paced and great working/learning environment!

Q&A

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