FULL-STACK SOFTWARE ENGINEERING FELLOWSHIP SUMMER 2022

Data & Technology Services, Austin Transportation Department
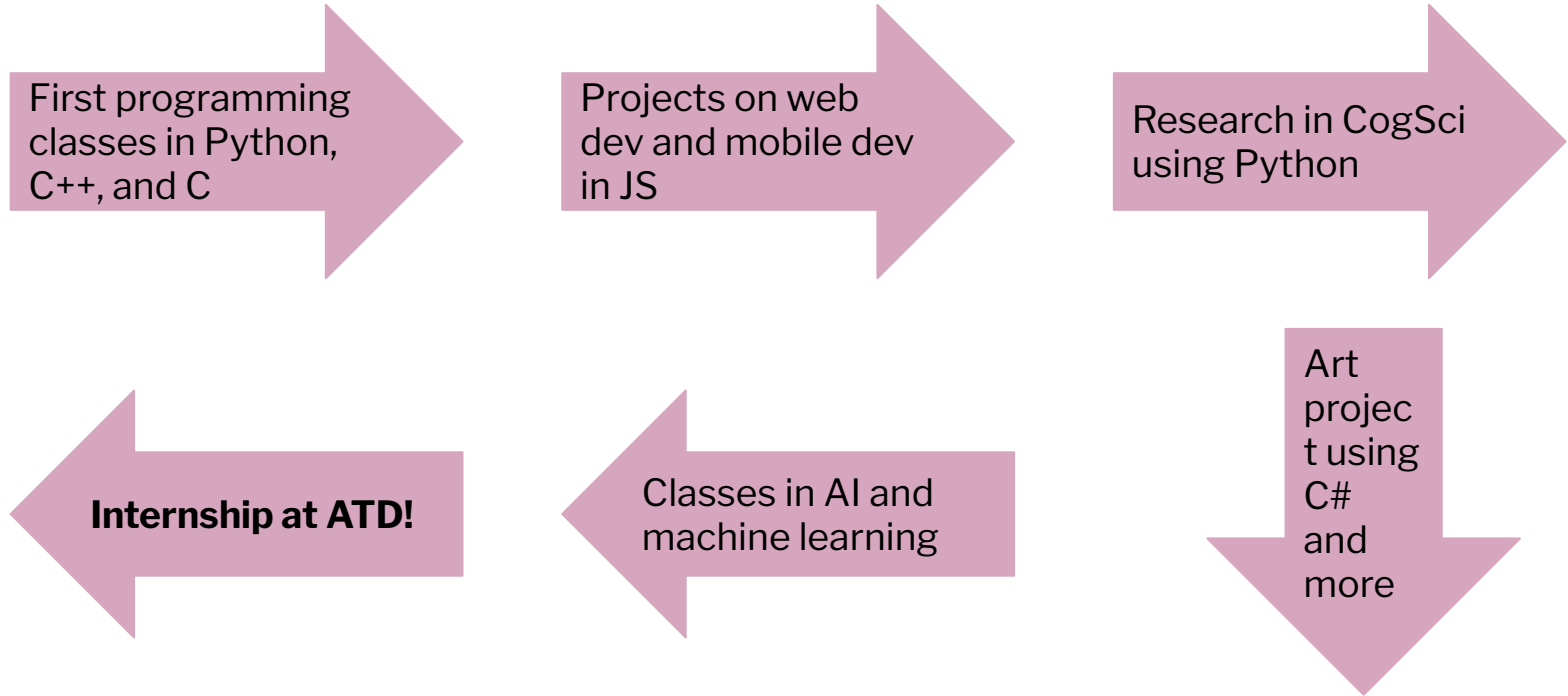**City of Austin, TX**
Chia Berry — Head of Software Engineering
Patrick McDonnell — Senior Product Manager

coding it forward >

Rachel Wang
Stanford University
Symbolic Systems & Classics

MY BACKGROUND

First programming classes in Python, C++, and C

Projects on web dev and mobile dev in JS

Research in CogSci using Python

Art project using C# and more

Classes in AI and machine learning

Internship at ATD!
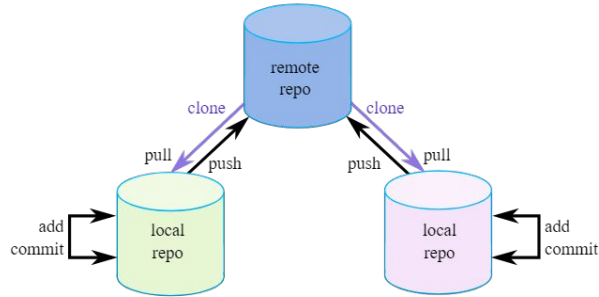
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CHALLENGES GOING IN

- Health conditions

- Learning the dev workflow

- Scoping my work

- Asking for help

- Working on real-world issues

GROWING IN THE PROCESS

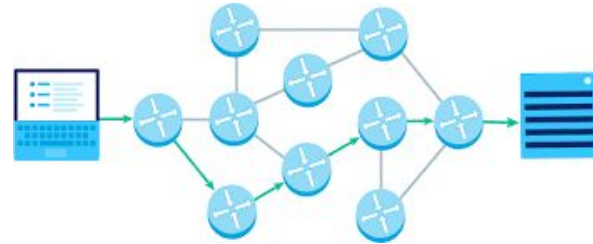

virtual env setup

Git workflow

software network

frontend vs. backend

website routing
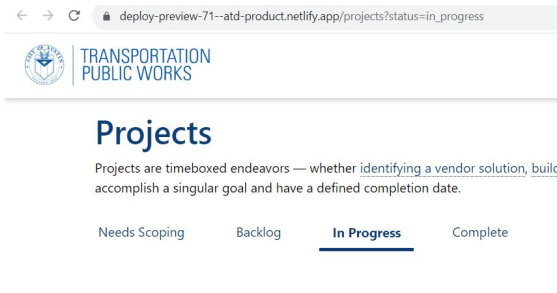
MY CONTRIBUTIONS: A SUMMARY

13 closed issues

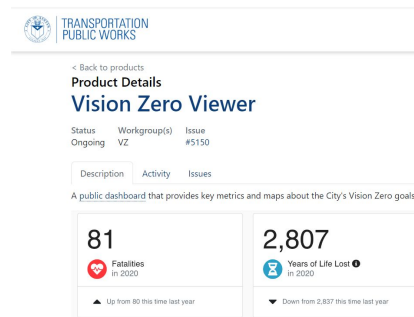2 in-progress issues

11 PR requests

DTS website, Vision Zero, Socrata data portal, etc.

DTS WEBSITE

A website about ATD's Data & Technology Services team.

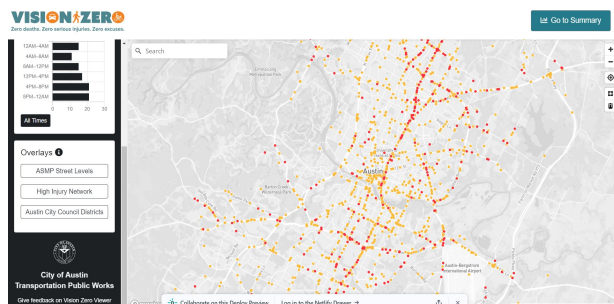Implement "view" parameter in "Projects" page's URL

Increase hyperlink accessibility

Update DTS website to align with new branding

VISION ZERO

Home base for a suite of applications that help centralize and streamline the management of ATD's Vision Zero data.

Update the side bar of the Map page

Update injury severity badges in the "People" tab

Fix age group overlap

FINAL DAYS

A bot that creates github issues from our Knack-based intake form.

Finished: remove HTML comments from the GitHub issue dataset on Socrata

Ongoing: Add export button to "User" on VZ

TAKEAWAYS

Impact can be made from any position.

Civic tech is home to some of the brightest minds :)

Software engineering is a lot more than coding.

Teamwork makes perfect!

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APPRECIATION SLIDE

Dev sync

GitHub

PR comments

Biweekly sprint

The dev team

Good documentation

(readmes)

Agile (in general)

Deploy preview

Birthday cards

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THANK YOU!!!

To everyone at the City of Austin for creating this welcoming space
To the dev team for all their support and help
To CIF for this eye-opening opportunity
To my mentors, Chia and Patrick, for keeping me on track

coding it forward >

Rachel Wang
Stanford University
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