

# FULL-STACK SOFTWARE ENGINEERING FELLOWSHIP SUMMER 2022

Data & Technology Services, Austin Transportation Department  
City of Austin, TX

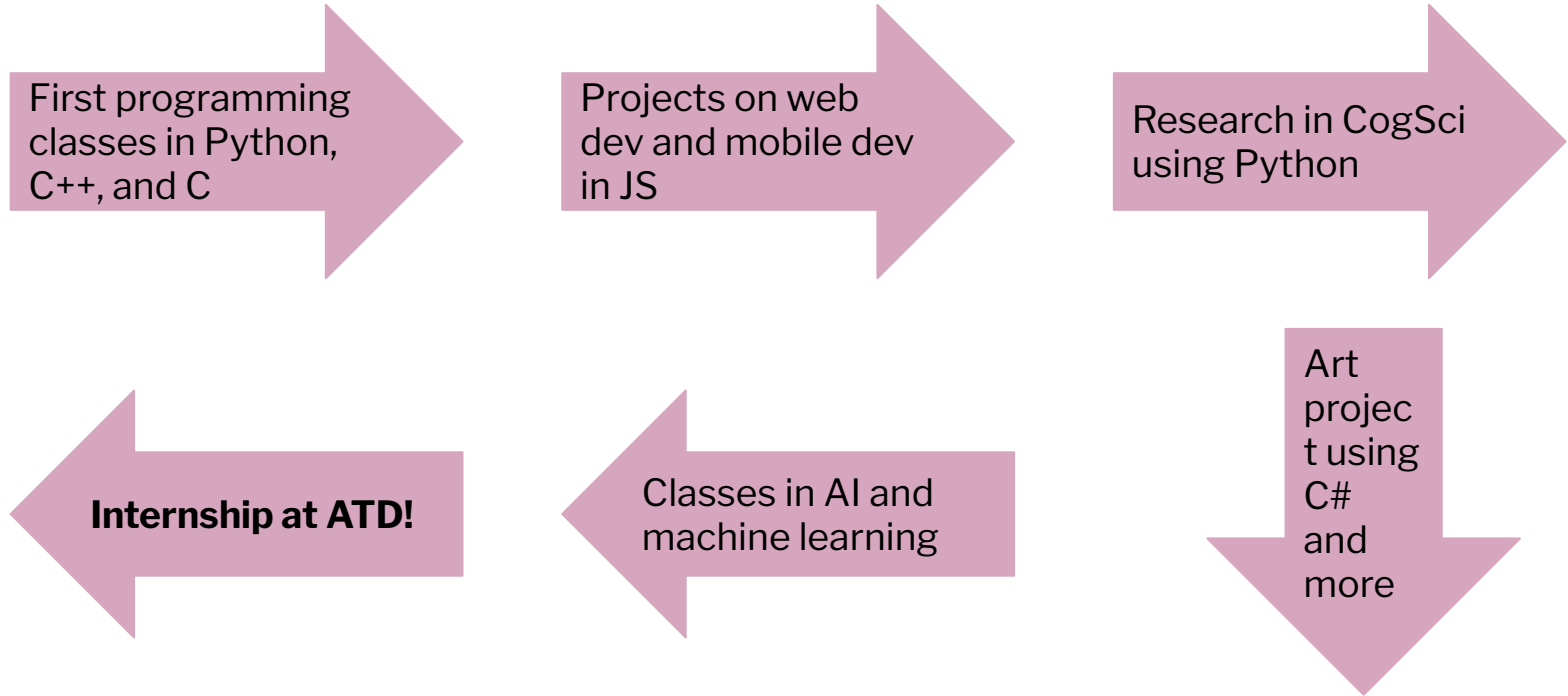
Chia Berry — Head of Software Engineering  
Patrick McDonnell — Senior Product Manager

coding it forward >



Rachel Wang  
Stanford University  
Symbolic Systems & Classics

# MY BACKGROUND



# CHALLENGES GOING IN

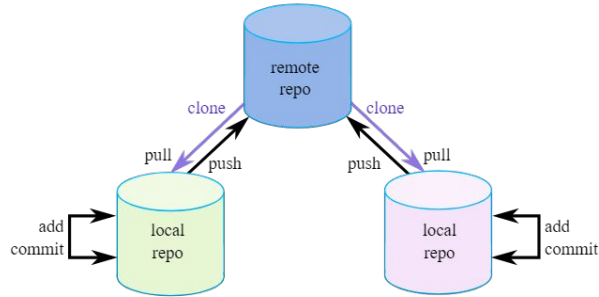
- Health conditions
- Learning the dev workflow
- Scoping my work
- Asking for help
- Working on real-world issues



# GROWING IN THE PROCESS



virtual env setup



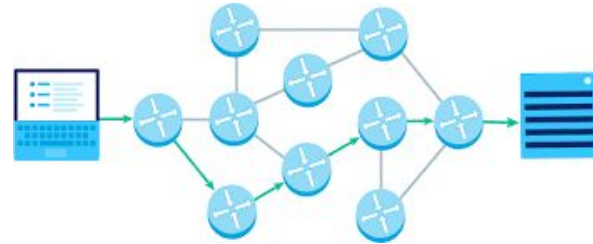
Git workflow



software network



frontend vs. backend



website routing

# MY CONTRIBUTIONS: A SUMMARY



13 closed issues

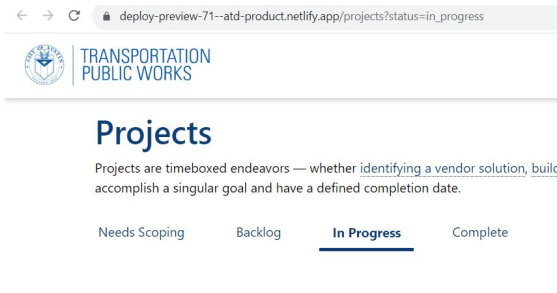
2 in-progress issues

11 PR requests

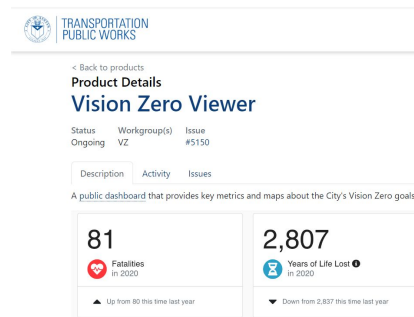
DTS website, Vision Zero,  
Socrata data portal, etc.

# DTS WEBSITE

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



Implement “view” parameter in “Projects” page’s URL



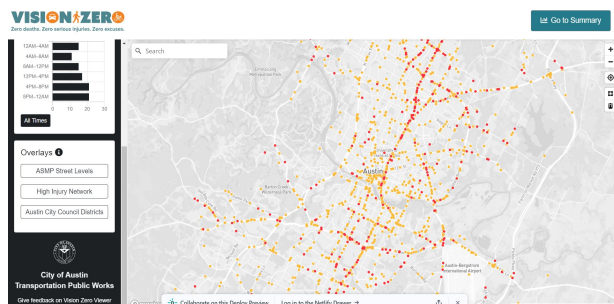
Increase hyperlink accessibility

**Data & Technology Services**  
Austin Transportation & Public Works

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

People			
Drivers/Primary People			
Unit	Injury Severity	Type	Age
1	FATAL INJURY	DRIVER	87
2	SUSPECTED SERIOUS INJURY	DRIVER	50
3	NOT INJURED	DRIVER	22

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.

Table Preview

View Data Create Visualization

ID	Issue	State	Pipeline	Title	Work...	Body	Labels	Estim...	Miles...	Creat...	Closed	Upd...
1854026...	13,419	open	New	Requestin...	SMO	<!-- Email ...	Type: IT S...			2023 Aug...		2023
1853868...	13,418	open	New	Service R...	OPM	<!-- Email ...	Type: IT S...			2023 Aug...		2023
1853860...	13,417	closed	Closed	IT Suppor...		<!-- Email ...						
1853857...	13,416	open	Ongoing	Bug: User...	ROW	###						
1853739...	13,415	open	New	Service R...	SSPD	<!-- E						
1853722...	13,414	open	Needs Sc...	Make Pol...	VZ	###						
1853716...	13,413	open	Review/QA	[Enhance...		Beca						
1853709...	13,412	open	New	Service R...	AMD	<!-- Email ...	Workgrou...			2023 Aug...		2023
1853691...	13,411	open	Backlog	[Enhance...		Every onc...	Service: D...			2023 Aug...		2023
1853680...	13,410	open	In Progre...	Crossing ...	ATSD	ATSD wo...	Workgrou...	2		2023 Aug...		2023
1853672...	13,409	closed	Closed	Update A...	AMD	- [x] Add ...	Workgrou...			2023 Aug...	2023 Aug...	2023
1853651...	13,408	closed	Closed	IT Suppor...		<!-- KRAM...	Type: IT S...			2023 Aug...	2023 Aug...	2023
1853498...	13,407	open	Needs Sc...	Advanced...	SMO	## Descri...	Impact: 3...			2023 Aug...		2023
1853487...	13,406	open	Needs Sc...	Update G...	DTS	## Specs...	Workgrou...			2023 Aug...		2023

< Previous Next >

Showing Issues 1 to 14 out of 13,108

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

Disk Icon

« < Page 1/3 Users: 109 > »

Logins Count	Last Login	Role	Status
56	06/07/2023	Admin	Active
6	06/07/2023	Read-only	Active
331	06/07/2023	IT Supervisor	Active

**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!**



# APPRECIATION SLIDE

Dev sync

GitHub

PR comments

Biweekly sprint

**The dev team**

Good documentation  
(readmes)

Agile (in general)

Deploy preview

Birthday cards

# 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*

