

PIERO MADDALENI

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PROJECTS

Transitstatus, Project — *Developer*

NOV 2022 - PRESENT

Open source and free transit tracker built using React, Vite, React Router, and Maplibre for cities like Chicago and New Brunswick. Currently has ~20k MAU and fetches data from a custom api (Store, mentioned below).

Amtraker, Project — *Developer*

OCT 2021 - PRESENT

Full stack, open source, and free Amtrak train tracker built using React, Vite, React Router, and Maplibre on the frontend and the Bun JS runtime on the backend. Currently has 46k MAU making 2.84M API calls.

Store, Project — *Developer*

MAY 2022 - PRESENT

Open source and free general purpose api for serving ephemeral data (such as GTFS-RT) using the Fastify framework on the Node.js Javascript runtime. Serves 2.86M requests per month with a capacity of 30,000 req/s. Run on Vultr.

GTFS Schedule Data, Project — *Developer*

MAR 2022 - PRESENT

Tool built to extract GTFS data from various feeds in a form readable by Store (mentioned above) and various other projects. Built in Node.js using standard libraries and csv-parse. Mostly makes basic route, stop, and shape data available. Run on Cloudflare pages.

Gobbler, Project — *Developer*

JAN 2024 - PRESENT

Tool built to extract GTFS data from various feeds in a form readable by the frontends and backends of Transitstatus and Amtraker, intending to eventually be a replacement of GTFS Schedule Data. Built in Node.js using standard libraries and papaparse. Allows for the fetching of route, stop, and shape data, along with a compressed version of schedule information, allowing for efficient storage of schedule data. Run on Cloudflare pages.

EXPERIENCE

NIRCRC d/b/a Metra, Chicago, IL — *Conductor and Student Engineer*

MAR 2025 - Present

- Received and specialized training on the GCOR and railroad operations to become a passenger conductor and student locomotive engineer (driver)..

Union Pacific Railroad, Chicago, IL — *Conductor and Remote Control Operator*

AUG 2024 - Present

- Received and specialized training on the GCOR and railroad operations to become a Conductor and RCO.
- Completed Brakeman, Freight Conductor, Passenger Conductor, and RCO training. Licenses expire in 2027.

Optakit, Remote — *Software Engineering Consultant*

APR 2024 - JUNE 2025

Created various data ingestion and processing pipelines and built various frontend tools to view the resulting data. Backend was built on GCP with Cloud Functions (Python) and BigQuery. Frontend was built with Vue and Firestore.

Wendella Tours & Cruises, Chicago, IL — *Deckhand II*

MAY 2023 - JULY 2024

- Received specialized training and certification on 7 boats, ranging in capacity from 110 to 340 passengers
- Maintained CPR and First Aid certification for emergency response while ensuring customer safety constantly
- Operated POS systems and provided exceptional customer service to passengers.

Swissport Fueling Services, Chicago, IL — *Plane Refueler*

DEC 2022 - MAY 2023

Fueled United Airlines aircraft, while following safety protocols and keeping accurate records of fuel transactions.

NAPA Auto Parts, Atlanta, GA — *Delivery Driver*

MAY 2022 - AUG 2022

Safely operated delivery vehicles to transport auto parts, while providing exceptional customer service.

Floor & Decor, Atlanta, GA — *Warehouse Laborer*

MAY 2021 - AUG 2021

Picked and packed orders with precision, maintaining inventory accuracy, and meeting delivery deadlines.

Replit Inc, Remote — *Community and Social Media Manager*

AUG 2020 - MARCH 2022

Managed public facing social media accounts and online communities while creating content, such as programming tutorials, providing support to customers, and creating internal tools. Increased Twitter following from 13k followers to 42k followers and Tiktok following from 0 followers to 4.2k followers.

Sweetwater Pools, Atlanta, GA — *Lifeguard*

MAY 2018 - SEP 2020

Enforced safety rules, while responding to water-related emergencies, administering first aid and CPR when necessary

LANGUAGES

Javascript, Typescript, Java, Python, HTML - All Proficient

LIBRARIES/Frameworks/Tools

React, Vite, Git, Figma, Next.js, Maplibre, Mapbox, Leaflet, React Router, React Native, and more

EDUCATION

Riverwood International Charter School, Atlanta, GA — *High School Diploma and IB Certificate*

AUGUST 2017 - MAY 2021