

Lloyd Tanedo

COMPUTER SCIENCE GRADUATE · FIRM BELIEVER OF ACCESSABILITY FOR ALL

Everything below is entirely truthful. While many works are private, all points have a public github example.

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University Work

Collaboration with CarbinAI (MIT-Group)

[Itanedo/EasySensorTools-Android](#)

FULL-STACK DEVELOPER - UNDER PH.D CANDIDATE ABHISHEK GUPTA

Jan. 2022 - Aug. 2022

- Worked with Ubuffalo and MIT teams, to identify bugs and improvements to the original CarbinApp and CollectionSDK in Kotlin.
- Re-designed testing app for CarbinAI, added the group's newer in-house sdk, also widening the device compatability range from Android 8-12.
- Created *EasySensorTools*, an sdk to easily collect sensor data with support for *Protobuf Streaming*, *AWS Integration*, and Backend analysis Tools.

WizardsOfOdds Trading-Infrastructure Project

[Itanedo/easy-algotrading-sdk](#)

FULL-STACK - DEVELOPER UNDER DR. ZHEN LIU AND DR. CHUNMING QIAO

Oct. 2021 - Aug. 2022

- Worked with UBIT and former traders, enabled Flask as a service to all UB-Students and designed a Trading-Companion App in React-Native.
- Using algorithmic complexity principals, reduced time of original recommendation algorithm from roughly 10 minutes to 30 seconds.
- Created *easy-algo-trading-sdk*, an sdk to easily schedule trades and recommendations using caching and *gsheets* for fast-executions.

(NYDOT) Incident-Inspection-Management-Service : Buffalo Team

[Itanedo/nyc-point-to-road-labeler](#)

BACK-END DEVELOPER - UNDER DR. CHUNMING QIAO

Aug. 2021 - Dec. 2021

- Worked with RIT Road Visualization lab, to develop a global road index for easy lookup, based on existing TMC identifier codes.
- Worked with Tianyu Bao (UB Data-Science Major), to combine RIT-TMC table and vehicle incident Meta-Data to final-matched output.
- Reduced incident-matching time from 10 minutes to 10 seconds, used *kd-j tree* from *sk.learn (Python)* to reduce lookup to $O(\log(n))$ time.

Teaching Assistant for CSE 442 Senior Design

[CSE-Courses/...](#)

UNDER DR. MATTHEW HERTZ

Aug. 2021 - Dec. 2021

- Worked with two Senior-Design teams to release MVP (minimum-viable products) Web-Apps for four seperate sprints (grading periods).
- Identified skills and weaknesses of each team member, efficiently assign tasks based on said skills to avoid merge conflicts.
- Tracked and monitored performance of both teams using *Agile Development* and *Zenhub* identifying task issues and completions.

UB PocketCare+ (Pre-PocketCares)

[PocketCareS/Android](#)

DATA-SCIENTIST UNDER DR. LU SU AND DR. WEIDA ZHONG

Jan. 2020 - March. 2020

- During Covid-Pandemic, worked with UB-Team to upgrade older report-health app from Android 4.0, to Android 10.0.
- Personally advocated for design choices such as button placements and visual feedbacks to promote accessible design.
- Upgraded base app to use UB's primary and secondary HEX colors also implementing Modern Material Design to all components.

Road-Sensing for Smart Cities Project

[Itanedo/osm-snap-to-roads](#)

DATA-SCIENTIST UNDER DR. LU SU AND DR. WEIDA ZHONG

Jun. 2019 - Aug. 2019

- Worked with Dr. Weida Zhong (formerly ph.d candidate) to design a lower cost infrastructure pipeline when parsing data from UB-Buses.
- Saved entire research budget monetarily, migrated tech stack from *Google Maps API* to *Open-Street-Maps SDK* making all API calls zero-cost.
- Identified common gps outliers on bus-routes, created backend pipeline to clean and convert gps points to xml, snapping all points to roads.

Personal Works

GSheets-TSDB A python library using datetime to read and write data to google sheets to essentially create a time-series database.

easy-rn-expo A pre-build template for react-native built on expo. Includes a script to correct all dependency errors on ios and android.

bubsnbubsy.art An open-source social site for the cartoonist group bubsnbubsy built on React. More details on [Itanedo/easy-gh-social-pages](#).

Skills and Experiences

Languages Python3 · Javascript · Kotlin · Java · Basic-SQL · Basic-Bash

Frameworks React (functional design) · React-Native · RN-CLI · Expo-CLI · Flask · Pandas · Android · SQL-Lite

Development Object Oriented Design · Declarative Programming · Git Basics · Linux Basics · Agile-Development · Zenhub-Basics

University Jobs (Student Association) Breakdance-Club President · (UBIT) Tech-Assistant and Camera-Operator

Cloud Technologies AWS-Amplify-CLI · Azure-CLI · AWS-EC2 · AWS-S3-Storage · Google-GCE · Azure-WebApp-Service · Heroku-Basics

Education

University at Buffalo (SUNY)

[Buffalo, New York, United States](#)

B.S. IN COMPUTER SCIENCE AND ENGINEERING - GPA: 3.027

Aug. 2016 - June 2022