

Lloyd Tanedo

SOFTWARE ENGINEER · COMPUTER SCIENCE MAJOR

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Internship Work

University at Buffalo - Wireless Security Lab

Buffalo, New York

FULL STACK DEVELOPER - "ROAD SENSING FOR SMART CITIES" RESEARCH PROJECT

Jun. 2019 - Aug. 2019

- Reduced the monetary cost of map matching (per API call) to zero by implementing the transition from *Google Maps* to *Open Street Maps*
- Designed process to detect and remove outliers (caused by broadcast interference) in original GPS data from the UB Stampede bus system.
- Provisioned system to pre-process all GPS files in the '.txt' format into the '.gpx' format to ensure compatibility with the *Open Street Maps API*.
- Built feature to identify the average speed for all GPS files per a user's given interval also writing the results to local storage for future lookup.
- Created web app to map-match and display user-inputted GPS data highlighting the path based on average speed taken from all GPS files.

Published Projects

UB Student Association - Breakdance Club Website

Buffalo, New York

WEB DEVELOPER (FRONT + BACK-END)

Jun. 2018 - Current

Home URL - www.ubbreakers.gq · **Signup URL** - www.joinbreaks.gq

- Home page designed to deliver club meeting times, EBoard information and highlights to newly anticipated club members and alumni.
- Increased efficiency of sign-ups at club fairs by creating "join" page to quickly add new emails to master list using the *Google-Sheets JS API*.
- Implemented modern material design with end to end responsiveness using *Bootstrap 4* and *Font-Awesome* frameworks with custom CSS.
- Provisioned site as a *Node.js* web app hosted on *Heroku* in order to run both server-side and client-side functions ensuring future scalability.

"BLACKPINK - Lyrics" Android App

Buffalo, New York

ANDROID DEVELOPER (FRONT + BACK-END)

Dec. 2018 - Current

Release URL - www.blinkplayer.gq - Release info and APK provided

- Only *Black Pink* Lyric app to include Music Video and lyrics (in Roaminizations and English translations) together on an open *Android Activity*.
- Implemented playback of all *Black Pink* music videos on the *Video Player Activity* using Google's *YouTube API* for Android development.
- App exhibits modern material design with complete responsiveness using *XML* layers to apply custom gradients to all cards in the *RecyclerView*.
- Increased the *Video Activity* load speed by 50% by using local string resources (in *XML*) over a *Firebase Firestore* database.

Team Projects

University at Buffalo BuyNSell Website

Buffalo, New York

FULL STACK DEVELOPER - "CSE 442 SOFTWARE DEVELOPMENT"

Feb. 2019 - May 2019

GitHub URL - JacobYim/CSE442-BuyNSell

- Implemented middleware functions to capture and verify user sign-up data client-side before final push serverside to the *PostgreSQL* database.
- Managed and organized code by transitioning all *HTML* files into *EJS* modules to further promote modularity within the entire project.
- Ensured user protection from server-side attacks by arranging password hashing to occur client-side prior to pushes to the *PostgreSQL* database.
- Provisioned system for user to reset password using the *nodemailer API* to mail a temporary password based on the user's inputted email.

Number Classification using Neural Networks

Buffalo, New York

PROJECT MANAGER - "CSE 474 MACHINE LEARNING"

Mar. 2019 - Apr. 2019

GitHub URL - ltanedo/CSE-474-Assignment-2

- Implemented all matrix math formulas for forward and back propagation from lecture into *Python* using the *Numpy* library and its functions.
- Identified Google's *TensorFlow* to be more efficient than *Python* scripts using *Numpy* when processing large data sets using a *Neural Network*.
- Built *Neural Network* using class provided *API* to create and train provided data using the given examples with provided expected outputs.

Skills

Programming Python3 · C++ · Java · JavaScript · NodeJS · HTML · CSS · Bash Scripting · Linux · Git Management

Development Android Development · Software Development · Web Development · Material Design

My Interests Design · Photography · Cinematography · Technology · Dancing

Education

University at Buffalo (SUNY)

Buffalo, New York, United States

B.S. IN COMPUTER SCIENCE AND ENGINEERING - GPA: 3.2

Aug. 2016 - Current