Brenton Jackson

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EDUCATION

Bachelor of Science, Computer Science, Atlanta, GA   Expected Graduation: **May 2023**
Georgia State University

EXPERIENCE

Software Engineer Co-op, *Ford*   **Atlanta, GA (Remote)**   **September 2022 – Present**
- Develop and support "connectivity feature roadmaps" and adoption of new technologies
- Participate in code reviews, prototype to production concepts, and platform/system testing.
- Work on the IVI (in-vehicle-infotainment) team

Associate Software Engineer, *EasyPost*   **San Francisco, CA (Remote)**   **April 2021 – July 2021**
- Improved scalability and saved developer hours by automating message processing for a carrier that sent messages in Mandarin, as well as automating other carrier messages
- Scraped websites using **Python** and BeautifulSoup to provide real-time information to clients from carriers

Junior Software Developer, *CoreView*   **Alpharetta, GA**   **July 2020 – March 2021**
- Improved UX by implementing automated bulk actions for workflows to save time
- Ensured every component had tests, which led to less bugs and quicker bug ticket resolution
- Developed new homepage using **React** that displayed individualized snapshots of data metrics for users

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INDEPENDENT PROJECTS

Wall-ace, DevPost Link   **April 2022**
- Created a POC for a swarm of trash monitoring and collecting robots using a Raspberry Pi and Arduino
- Object detection and motor control implemented using **Python**/OpenCV/ZeroMQ
- Web server implemented with **Node** allows a **React** app to fetch the camera frames and trash detection status
- Responsible for system design, object detection, and web app; teammates focused on CAD and motor control

Fruit-Price-Adjustor, GitHub Link   **March 2022**
- Created project that automated the pricing of fruit based on the progressive ripeness of the fruit
- Machine learning implemented using **Python**/OpenCV/ZeroMQ and TensorFlow. Web server implemented in **Node** that allows a frontend **React** app to display the price
- Responsible for the hardware, system design and web app while teammate implemented ML model
- Won 1st Place Hardware Hack at HackGSU

Quick-Muse, GitHub Link   **February 2022**
- Created an online media player for audio files
- Used **React** to implement UI and HTML5 Audio API and File API to control functions such as uploading files and play/pause/rewind/fast-forward

Emoji-Recipes, GitHub Link   **January 2022**
- Created text service powered by Twilio that accepts a food emoji and texts back a recipe with that food
- Implemented using a **Node** web server and a **Python** web scraper to source emoji data

Workout Manager, Github Link   **March 2020**
- Launched Web app using **React**, **MongoDB**, **Express**, and **Node** that allows users to track workouts
- Designed/built secondary site FitnessGram using JavaScript to provide motivation while using app
- Implemented REST API to allow user to save, delete, update, and create new workouts; deployed on Heroku

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RELEVANT SKILLS

Languages: JavaScript, Python, C, PHP, Java, Bash
Frameworks/Libraries: React, NodeJS, Express, Django, OpenCV, BeautifulSoup, Selenium, ROS
Hardware/Platforms: Raspberry Pi, Arduino, Linux
Other Technologies: Git, GitHub, Docker, Heroku, MongoDB, SQL, RabbitMQ