CARLOS ARIAS-MIRANDA

CELL (908) 422-6430   **E-MAIL** carlosar1219@hotmail.com   **PORTFOLIO**   **GITHUB**   **LINKEDIN**

SKILLS

Python, Ruby, Javascript, TypeScript, React, Django, Ruby on Rails, GraphQL, Apollo, Redux, jQuery, HTML, CSS, SQL, Git, TDD, AWS Lambda, AWS S3, AWS RDS, AWS ECS, Docker, Flow, NPM, Yarn, Fluent in Spanish

PROJECTS

Fakebook (Rails, React, Redux, PostgreSQL, Webpack, AWS S3, CSS3, Heroku) | *Sole Developer*   **live | github**

A single-page web application inspired by Facebook where users can share media with family and friends from all over the world

- Introduced improvements in time complexity and server loading speed by designing custom SQL queries to extract required data in a single query through the use of Active Record associations.
- Engineered a custom process for multiple media file uploading which mimicked Facebook's media uploading process precisely.
- Reduced the number of required database tables by 16% and refactored backend code by utilizing polymorphic tables.

Keypress (JavaScript, NPM, Webpack, HTML5, CSS3) | *Sole Developer*   **live | github**

Fully interactive javascript application where users can complete typing lessons to improve their accuracy and speed.

- Eradicated graphic rendering lag and enhanced user experience (UX) by building a custom image caching algorithm which caches lesson images on a per-need basis.
- Implemented a seamless multi-page experience through custom, highly maintainable, JavaScript rendering functions and OOP.

EXPERIENCE

Software Engineer   **May 2019 - Present**
LoanStreet, Inc.

- Reduced average response time for users with 1,000 entries from 7850ms to 350ms.
- Developed stateful application to produce historical reports of user loans, payments, and participations in 35s; with the legacy system taking 15min to produce the same report.
- Designed and engineered audit trail feature for production application in order to create a detailed report of data changes.

Full-Stack Developer   **2017 - 2019**
Logistics Supervisor   **2014 - 2019**
Express Transport by Air, LLC.

- Pioneered and implemented a warehouse product tracking system to increase personnel productivity by 50%.
- Engineered innovative internal tools using PHP, JavaScript, jQuery and SQL to maximize efficiency and reduce clerical errors by 15%.
- Designed and developed a stylish and fully responsive website for the company.
- Supervised and trained team of eight while overseeing customer relations for nearly 20 accounts.

Academic Learning Center Supervisor   **2011 - 2014**
Union County College

- Taught complex mathematics and physics subjects including *Differential Equations*, and *Electricity and Magnetism* with a student success rate of 96%.

EDUCATION

Thomas Edison State University - B.S. Electronics Systems Engineering   **2017 - 2019**
Union County College - A.S. General Engineering   **2011 - 2014**