

ALEXIS J. CARR, M.S.

FULL STACK
SOFTWARE
ENGINEER

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Awards

Biomedical Engineering
Inspiration Award
Mar. 2014

National Action Council for
Minorities in Engineering
(NACME) Scholarship
Mar. 2014

Skills

TECHNICAL SKILLS

HTML5/CSS3
Sass/LESS
JavaScript/TypeScript
Python
R
React
Redux
React Hooks
React Context API
Node/Express
PostgreSQL
SQLite
MongoDB
Redis
Web Sockets
MATLAB
Linux
Bash
C
Java

TOOLS

Jupyter
git
npm/yarn
ssh
VirtualBox
REST
pip
Enzyme
Auth0
Heroku
Cypress
React Testing Library
Jest

Selected Technical Projects

Sauti Africa Market Price Data

Oct. 2019 to Nov. 2019

- **Description:** Sauti Africa is a non-profit organization that serves to empower cross border traders by providing real-time market prices, exchange rates, and trade procedures. This web app provides a public-facing data platform for accessing Sauti Africa's data.
- Collaborated with 7 other team members and the Sauti Africa organization to create the application in 2 months.
- Designed and built backend API key authentication pipeline.
- **Github repo:**
 - <https://github.com/Lambda-School-Labs/sauti-africa-market-price-data-fe> (client)
 - <https://github.com/Lambda-School-Labs/sauti-africa-market-price-data-be> (server)
- **Built with** React | React Hooks | Redux | Node | Express | Auth0 | MySQL | PostgreSQL

Sleep Tracker

June 2019

- **Description:** A web app that recommends how much sleep you need using user inputs for mood and time slept.
- Collaborated with 6 other team members to create the application.
- Added client authentication using Axios and localStorage to persist sessions.
- Built recommendation engine that calculates how many hours a user should sleep.
- **Github repo:** <https://github.com/bw-sleep-tracker/ST-Front-End>
- **Deployment link:** <https://sleeptrackr.netlify.com/>
- **Built with** React | Redux | MaterialUI | React Router | git | Axios

Servable (Log in. Swipe Right. Volunteer.)

Aug. 2019 to Current

- **Description:** A mobile-friendly web app that matches users to volunteer opportunities via a Tinder-like interface.
- Collaborated with 2 other team members to create the application for Codefest 2019. Placed 3rd overall.
- Designed and built RESTful backend to be consumed by the React client.
- Mentored new React developers in building the frontend.
- **Github organization:** <https://github.com/teamname-codefest2019/servable-frontend>
- **Built with** React | Node | Express | SQLite | PostgreSQL

Insuline (Diabetes Manager)

Aug. 2019

- **Description:** A web app that allows users to input glucose levels and predicts glucose levels over the next 24 hours.
- Managed a 13-person team consisting of data scientists, front end developers, and back end developers.
- Translated jargon between the data science team and the backend team and coded frontend/backend, as needed.
- **Github organization:** <https://github.com/Build-Week-Diabetes-Manager>
- **Deployment link:** <https://diabetesmanager.netlify.com/>
- **Built with** React | Node | Express | SQLite | PostgreSQL | Python | Flask

ZiPy (Zero-Inflated Poisson Regression Python Package)

Jan. 2019 to May 2019

- **Description:** A Python implementation of zero-inflated Poisson regression.
- **Github repo:** <https://github.com/alexiscarr/ZiPy>
- **Built with** Python | NumPy | SciPy | Pandas

Selected Experience

Lambda School

San Francisco, California

Team Lead (remote)

July 2019 to Current

- Providing daily feedback and issue resolution of all curriculum through Slack help channel or code review.
- Delivers one-on-one feedback and code review on a weekly basis
- Leading a team of eight (8) students that emulates a real work environment using Agile methodology.

Department of Biomedical Informatics, TAMU

College Station, Texas

Graduate Research Assistant

Aug. 2017 to May 2018

- Assisted in programming redaction software to scrub PHI from unstructured medical records text.
- Customized the star schema of a published and successful biomedical informatics data warehouse for storing redacted medical records data.
- **Used** Python | MySQL

Education

Lambda School

Apr. 2019 to Current

Full Stack Web Development and Computer Science

- Lambda School is a 9+ month Computer Science & Software Engineering Academy that provides an immersive hands-on curriculum with a focus on computer science, web and mobile development, UX design, and data science.
- Living Stipend Recipient

Texas A&M University

Aug. 2016 to May 2019

Master of Science in Medical Science, Biomedical Informatics & Data Science concentration

- Relevant Coursework: Contemporary Topics in Advanced Cell Biology I, Database & Computational Tool in Big Data, Statistical Computing in R & Python, R Programming, SAS Programming, Build Front-End Web Applications from Scratch

University of Houston

Aug. 2011 to May 2016

Bachelor of Science in Biomedical Engineering, Biochemical and Biophysical Sciences minor

- University Honors Graduate