

Brian Ruiz

Software Developer

 [www.github.com/BrianRuizy](https://github.com/BrianRuizy)
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EDUCATION

Bachelor of Science,
Computer science
**University of Houston
Downtown**
Anticipated: Dec, 2020

SKILLS

Languages:

Python, C, C++, JavaScript,
Java, HTML, CSS, SQL, R

Technologies:

Django, Flask, React, AWS,
Azure, Heroku, Docker

Other:

NumPy, Pandas, Matplotlib,
Scikit-Learn, TensorFlow,
Travis CI, Bootstrap, JQuery,
Git, GitHub, Linux, UI/UX,
Responsive design, Machine
learning, Testing, Data
visualizations, Algorithms,
Data Structures

ACHIEVEMENTS



Microsoft:

1st place at Hackathon,
Smart-Infrastructure
December, 2019



HackerRank:

Python, Algorithms &
Data Structures
August, 2020

LANGUAGES

English
Excellent



Spanish
Native




EXPERIENCE

09/2019 - 04/2020
**Software Developer
(Python)**
**Consolidated Asset
Management Services**
Houston, TX
 [www.brianruizy.com/
projects/cams.html](https://www.brianruizy.com/projects/cams.html)

- Developed oil & energy midstream analytics cloud SaaS web-application.
- Connected Flask framework with AWS to deploy Docker container(s) with vertically scalable AWS EC2 Linux instances.
- Implemented real-time web-scraping methods used for Python data visualizations.
- Redesigned web-app's UI/UX for mobile and cross-platform responsiveness, and optimized plot rendering time by 50%.
- Effectively communicated with stakeholders, and engineers to discuss functional and technical requirements.

05/2019 - 08/2019
Coding Instructor
**University of Houston
Education System**
Houston, TX

- Educated 60+ students via PBL for internationally accredited STEM camp, including kids abroad from Taiwan.
- Taught procedural programming with C for Arduino, principles of object-oriented programming using Java and Python, and logical design with GameMaker.


02/2019 - 03/2019
Field Data Analyst
Trace AI
Woodlands, TX
 www.traceup.com

- Contracted with AI company for a national soccer tournament (ECNL).
- Responsible for data acquisition, which curated analytics for 400+ athletes, and exporting the cloud data-lake.
- Facilitated, managed, and reported the data collected from TraceCam's and GPS telemetry devices (Tracers).

PROJECTS

COVID-19 Dashboard
Django, PlotlyJS,
Pandas, Bootstrap 4,
Heroku, Travis CI
 [www.ncov-
dashboard.herokuapp.com](https://www.ncov-dashboard.herokuapp.com)

- Created open-source COVID-19 analytics dashboard, allowing anyone to easily explore real-time datasets and statistics.
- Dynamic web-app features automated data scraping, interactive plots and maps, CI / CD, and mobile friendly UI.

Favours-app
Django, REST API, Flutter,
PostgreSQL, AWS
 [www.github.com/favours-
io/favours](https://www.github.com/favours-io/favours)

- Developing a scalable local marketplace where users post small-jobs (favours) in exchange for cash; currently in beta.
- Hosted on AWS, with Docker, and using Django ORM with built-in REST API which is then consumed by Flutter for native mobile application.

**Bump.IT | Microsoft
Hackathon**
Azure Logic Apps, React,
Computer Vision, Jupyter
 [www.github.com/BrianRuizy/
2019-Microsoft-IoT-hackathon](https://www.github.com/BrianRuizy/2019-Microsoft-IoT-hackathon)

- Potholes cause U.S. motorists up to \$3B a year, our app concepts the initiative to save cities up to \$150 per pothole.
- Implemented pipeline for processing of telemetry data, mapping with GeoPy, and automating user notifications
- Helped with training unsupervised ML model to categorize cases and images

REFERENCES

Josh Bryant, CAMS

Director of Engineering

available upon request

Rick Knauth, CAMS

VP of Asset Management

available upon request

G.V. Krishnan, UH

UH STEM Camp coordinator

available upon request

PROJECTS

Twitter NLP Sentiment Analysis

www.github.com/BrianRuizy/tweets-sentiment-analysis

- Created a supervised machine learning natural language processing script, which effectively detects expression in typed console text
 - Using Tweepy API, you can also find expression of in user's recent tweets
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Handwritten Digit Recognition

www.github.com/BrianRuizy/handwritten-digit-recognition

- Implemented a machine learning classification model to predict the value of handwritten digits through supervised learning, with up to 95% accuracy.
 - Used Scikit-learn, matplotlib, Support Vector Machine model
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BookOMate

www.github.com/Bookomate/bookomate

- Co-leading development of peer-to-peer calendar booking, which aims at simplifying the process with an intuitive design and functionality.
- Implemented integrations to existing calendar apps, and social media OAuth user authentication.
- Working on back-end models ORM, class-based views, and URL routing.
- Managing limited dev-ops, from Heroku Dyno deployment to Travis CI