

Richard Red



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Skills

Programming Languages

Java



C/C++



Python



JavaScript



Ruby on Rails



SQL



Technologies

Unix

Git

JUnit

Eclipse/IntelliJ

Virtual Machines

Cloud Services

Docker

Foreign Languages

Mandarin Chinese



Spanish



Experience

Zuora

Software Engineering Intern

May 2018 - August 2018

- Implemented new bank transfer methods by collaborating with clients to integrate APIs into Zuora's back-end, extending the customer base into Australia, Sweden, and Denmark.
- Developed database monitoring tools with Ruby on Rails and JavaScript to provide visual representations of SQL database usage statistics.
- Redesigned and implemented UI features for a more streamlined user experience.

UGA Small Satellite Research Laboratory

Flight Software Developer

March 2018 - Present

- Research and develop software implementations for NASA and the Air Force Research Laboratory.
- Satellite software architect for deployment, mission operations, and ground station communications.
- Program functions and modes for the Spectral Ocean Color (SPOC) satellite mission for NASA's second iteration of the Undergraduate Student Instrument Project (USIP).

Projects

WienerScreener

<https://github.com/richardred/WienerScreener>

February 2018

- Top 5 UGAHacks 3
- Created an Android application with Java that uses the TensorFlow Convolutional Neural Network (CNN) library in Python to determine whether a picture is of a hot dog.
- Handles requests using a Node.js web server running on Docker and uses shell scripting to process images with the machine learning data.

easy_bot

https://github.com/richardred/easy_bot

December 2018

- Created a Discord bot with Python that utilizes multiple APIs and libraries to create an enhanced interactive chat experience for several hundred users across multiple community servers.
- Integrated convenient features such as displaying weather forecasts.

Activities

UGAHacks 4

- Event Organizer and coordinator for the 4th annual UGA hackathon
- Responsible for increasing amount of hardware components and obtaining 10+ sponsorships

Education

University of Georgia

Bachelors of Science, Computer Science

December 2019

Relevant Coursework:

Software Engineering, Computer Networks, Computer Architecture, Systems Programming, Data Structures & Algorithms, Discrete Mathematics, Computational Theory