

# Richard Red

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## PROFICIENCIES

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**Programming Languages:** Java, C, C++, Python, JavaScript, SQL

**Technologies:** Unix, Vim, Git, Eclipse/IntelliJ, Virtual Machines, Cloud Servers, Docker

**Languages:** Chinese (Mandarin) – Fluent, Spanish – Intermediate

## EXPERIENCE

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### Zuora

May 2018 - August 2018

Software Engineering Intern

- 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

March 2018 - Present

Flight Software Developer

- 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

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

Feb 2018

- Top 5 projects at 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](https://github.com/richardred/easy_bot)

Dec 2017

- 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.

## EDUCATION

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### University of Georgia

December 2019

Bachelor of Science, Computer Science

Relevant Coursework:

Software Development, Systems Programming, Data Structures & Algorithms, Discrete Mathematics, Computational Theory

## ACTIVITIES

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### UGAHacks 4

- Event organizer and coordinator for the 4<sup>th</sup> annual UGA hackathon
- Responsible for increasing amount of hardware components and obtaining 10+ sponsorships