Richard Red

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PROFICIENCIES

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

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.
- Fixed a critical UI bug that bricked expensive client subscriptions, saving the company over $10,000.
- Developed database monitoring tools with JavaScript to provide visual representations of SQL database usage statistics.

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

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   *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

University of Georgia   *December 2019*
Bachelor of Science, Computer Science
Relevant Coursework:
  Software Development, Systems Programming, Data Structures & Algorithms, Discrete Mathematics, Computational Theory

ACTIVITIES

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