

Richard Red

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PROFICIENCIES

Programming Languages: Java, C, C++, Python, JavaScript, HTML, CSS

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

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

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

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 useful features such as displaying a weather forecast that is more convenient than conventional methods of checking the weather

maplistmaker - <https://github.com/richardred/maplistmaker>

Jan 2018

- Worked with Python, PowerShell, and Bash Shell scripting as a member of a two-person team
- Developed solutions to problems faced while trying to share files that were too large to be sent digitally
- Created compatibility for all Windows devices by programming a .exe file

EDUCATION

University of Georgia

December 2019

Bachelor of Science, Computer Science

Relevant Coursework:

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

ACTIVITIES

Mechanical Keyboards

- Custom firmware implementations, soldering and assembling keyboards
- Event organizer and coordinator for the Atlanta Vintage Computing and Mechanical Keyboard meetup

Center for Undergraduate Research Opportunities (CURO) Assitantship Recipient