Richard Red

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EDUCATION

University of Georgia

B.S. in Computer Science   *Aug 2016 – May 2020*

Relevant Coursework: Software Engineering, Computer Architecture, Data Structures & Algorithms, Computational Theory, Database Management, Computer Networks

EXPERIENCE

The Home Depot

Software Engineering Intern   *May 2019 – Aug 2019*

- Integrated Google Home with an internal app used by over 300,000 store employees to retrieve schedules, accruals, timecards, etc. conversationally using Go and serverless computing in GCP
- Created a Go library for Dialogflow and implemented OAuth 2.0 to automate usage of the Google Cloud API
- Digitized a site security process, saving the company tens of thousands of dollars in labor costs

NASA Armstrong Flight Research Center

Software Engineering Intern   *Jan 2019 – May 2019*

- Redesigned microservices architecture for a data analysis system to improve codebase scalability and security for classified aircraft and flight test data
- Migrated codebase to new infrastructure with a focus on CI/CD pipelines and other modern DevOps practices
- Integrated project with Atlassian development suite and taught developer team how to use the tools

Zuora

Software Engineering Intern   *May 2018 - Aug 2018*

- Integrated 3 bank transfer methods with Zuora's API allowing the company to accept payments in Australia, Sweden, and Denmark, resulting in a projected 2.7% annual revenue increase
- Developed database monitoring tools with Ruby on Rails to provide visual representations of SQL database usage statistics to increase developer team workflow
- Redesigned and implemented new UI features for a more streamlined user experience

UGA Small Satellite Research Laboratory

Research Assistant   *Mar 2018 – Dec 2018*

- Conducted research and developed software implementations for NASA and the Air Force Research Laboratory
- Created ground station software with Python for transmitting data, controlling satellite dish movement, and processing telemetry

LEADERSHIP & PROJECTS

UGAHacks - https://ugahacks.com   *Apr 2018 - Present*

- Organized and coordinated sponsorships for the annual UGA hackathon
- Communicated with 10+ companies and marketed the event, raising over $13,000 for the event **and d**oubling the previous attendance record

WienerScreener - https://github.com/richardred/WienerScreener   *Feb 2018*

- Created an Android app utilizing Java and the Python TensorFlow Convolutional Neural Network library
- Utilized a data set of 8,000+ pictures to determine if a picture is of a hot dog with 98% accuracy
- Handles requests using a Node.js web server running on Docker to process images with machine learning data

SKILLS

Programming Languages - Java, Python, Go, C++

Technologies - Linux, Bash, Git, VirtualBox, Cloud Computing, Microservices

Languages - English – Native, Chinese (Mandarin) – Native, Spanish – Working Proficiency