

Christian Kuss

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EXPERIENCE

TERRAN ORBITAL | GROUND SOFTWARE ENGINEER

Feb '22 - Present

Irvine, CA | Python

- Designed and created a command and control system for communication with satellites
- Managed radio and rotor hardware at ground stations
- Automated the processing of spacecraft telemetry and tracking generation

MICROSOFT | SOFTWARE ENGINEERING INTERN

May '21 - Jul '21

Remote | C++, C#

- Extended Azure cold storage capabilities to lower WAN costs for duplicating data using erasure coding
- Focused on increasing efficiency of data storage across multiple regions

AMAZON ROBOTICS | SOFTWARE ENGINEERING CO-OP

Jan '20 - Jun '20

North Reading, MA | Java, C#

- Developed an image generator using C# and Unity for creating a machine learning training set
- Implemented feature requests into custom gradle CLI package
- Created standalone service using AWS Batch with GPU enabled docker images

TABLECHECK INC. | SOFTWARE ENGINEERING CO-OP

Jan '19 - Jul '19

Tokyo, Japan | Ruby, Rails, Elixir

- Implemented a low-level "rescue service" using React and DynamoDB
- Developed a payment platform microservice in Ruby that adapts to third party APIs
- Wrote and performed detailed test cases using RSpec

SKILLS

PROGRAMMING

- Python, C++, Java, C#, Ruby/Rails, Javascript
- Familiar with C, LaTeX, MATLAB, React, Golang

SOFTWARE

- AWS, Arduino, Docker, Git, Kubernetes
- Unity, SolidWorks, AutoCAD, 3DSMax

EDUCATION

NORTHEASTERN UNIVERSITY | BS IN COMPUTER ENGINEERING

Boston, MA

Relevant Courses: Wireless Sensors & IoT | Machine Learning | Artificial Intelligence | OOD
Electromagnetics | Embedded Design | Engineering Algorithms

PROJECTS

SMARTYPILL

React, Python, Golang

- Eliminates error in taking prescriptions by dispensing correct dosages on a user-defined schedule
- Developing a full stack environment with a React web portal, RESTful API, and on-device GUI

THE TEMPLE

Python, Arduino

- Reduced daily monotonous tasks through automation with a custom Alexa Skill
- Hosted a public web server on a RaspberryPi to communicate with local ESP-8322 nodes
- Completed tasks such as closing blinds, turning on lights, and customizing LED light strip colors

RETRO EYE

Python

- Created a tetris game that is controlled using computer vision
- Sends images to Google Cloud Vision API to get eye location from Camera
- Uses position of eye to determine where to move tetris piece