

# Christian Kuss

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## EDUCATION

### NORTHEASTERN UNIVERSITY | CANDIDATE FOR BS IN ELECTRICAL & COMPUTER ENGINEERING

Boston, MA

GPA: 3.40 | Expected Graduation Date: Dec 2021 | Fifth Year

Relevant Courses: Wireless Sensors & IoT | Machine Learning | Electromagnetics | OOD

## SKILLS

### PROGRAMMING

- Python, C++, Java, C#, Ruby/Rails, Javascript
- Familiar with C,  $\text{\LaTeX}$ , MATLAB, React

### COMPUTER

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

## EXPERIENCE

### 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
- Followed test driven development standards to flush out design flaws

### 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 API's
- Wrote and performed detailed test cases using RSpec

## PROJECTS

### SMARTYPILL

In Progress

Python, Arduino

- Eliminates error in taking prescriptions by dispensing correct dosages on user-defined schedule
- Utilizes a custom Alexa Skill to allow for user interaction along with auditory and visual reminders
- Incorporated as L.L.C. in July 2020

### THE TEMPLE

Sep '20

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

Oct '19

Python

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