

Grady Wright

Computer Engineer

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Education

University of Kansas

Bachelor of Science

📅 May 2020

Major: Computer Engineering

GPA: 3.95

Experience

Software Engineer

SpaceX

📅 1/2021 - current

- Responsible engineer for software updates of satellites, user terminals, and gateways.
- Develop and maintain embedded c++ to software update vehicles
- Create and own multiple kubernetes microservice to manage the rollouts of software updates to over 1700 satellites and 150k user terminals.
- Evolved processes and tooling for keeping a fleet of low Earth orbit satellites on up-to-date software versions

Software Engineering Intern

Garmin Ltd

📅 5/2019 - 8/2019

- Create large scale automated UI testing framework
- Implement features and fix bugs for Garmin chart plotters using C
- Work with image comparison algorithms to implement UI test validation

Undergraduate Research Assistant

The University of Kansas

📅 1/2019 - 6/2019

- Assist in development of real-time raytracing simulation of communication networks
- Develop CUDA C++ for simulation of raytracing
- Write C++ for visualization of simulation using OpenGL

Involvement

Tau Beta Pi

Engineering Honor Society

- Active member through volunteering, tutoring, and test preparation

Eta Kappa Nu

IEEE Honor Society

- Active member through volunteering and coursework assistance

Skills

- Proficient with Python, C++, C, HTML/CSS/JS, MATLAB
- Adept in developing microservices and embedded C++
- Well versed working with kubernetes and istio
- Proficient using OpenGL and CUDA
- Experience with ray-marching and signed distance fields
- Extensive experience with automated UI and regression testing
- 3D modeling experience using AutoDesk Maya 2018, Blender, AutoDesk Inventor 2018

Honors and Awards

First Place HackKU 2020

The University of Kansas

- 1st place in the FinTech track of KU's annual hackathon for development of peer-to-peer money transfer system

Undergraduate Achievement Award

Eta Kappa Nu

- Awarded to top students in EECS 221 Electromagnetics

Projects

Twitch Overlay

Computer Graphics

- OpenGL rendered mesh particle system that updates with information gathered from the Twitch API
- Communicates with Twitch API using HTTP/Websocket protocols written with Winsock
- Supports separate build for ray-marched SDFs allowing for soft-shadows and reflections

Mooxter

HackKU 2020

- Peer-to-peer payment transfer system to utilizing everyday applications, such as Discord, Slack, Twitter
- Allows for XRP to be sent utilizing the Xpring API
- Utilizes Kubernetes to easily add interfaces and scale