

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 Engineering Intern

SpaceX

📅 1/2021 - current

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

Software Engineering Intern

Garmin Ltd

📅 5/2019 - 8/2019

- Create large scale automated UI testing framework
- Write Python to implement automated writing and executing of UI tests
- 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

Network Student Architect

The University of Kansas

📅 4/2018 - 5/2019

- Create and update documentation centered around whole network overhaul
 - Write C# and Python for automatic generation of network documentation
 - Management of Aruba and Cisco switching/routing configuration
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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
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Skills

- Proficient with Python, C++, C#, C, HTML/CSS/JS, MATLAB
 - 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
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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
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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

Fluid Simulation

Computer Graphics

- SPH fluid simulation built entirely in OpenGL
- Utilizes OpenGL compute shaders to apply particle physics and update render position
- Optimization is done using spatial hashing on particle positions

Moaxter

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
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