Alice **Hartley**

Computer Engineer

☐ 770-314-0110 | ✉ alicehartleyhartley@gmail.com | ⌂ www.alicehartley.com | ☐ HartleyAHartley | in HartleyAHartley

Education

University of Florida   *Gainesville, Florida*

B.S. in Computer Engineering.   *Apr. 2021*

- GPA: 3.61
- Relevant Education:
  - Digital Logic and Computer Systems. Computational Linear Algebra. Software Engineering. Data Science for ECE.
  - Machine Learning. Data Structures and Algorithms. Operating Systems.

Experience

Amazon - Intern   *Virtual Location - Florida*

SWE Intern   *May. 2020 - Aug. 2020*

- Lead design meetings to define resource allocation model for cloud service instances.
- Increased service reliability for our customers by implementing a resource allocation system.
- Interfaced with coworkers to improve and ensure higher code quality.

Ruiz HCI Lab   *University of Florida*

Undergraduate Research Assistance   *Feb. 2020 - Mar. 2021*

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Visa - Intern   *Visa Global HQ, Foster City, CA*

SWE Intern   *May. 2019 - Aug. 2019*

- Developed a management console for task processors using **Golang**.
- Developed a remote debugging tool using a **Golang** interpreter and a **GRPC** interface.
- Interfaced with project leads to accurately plan and map out project spec and scope.

Polysubstance Abuse Survey   *University of Florida*

Freelance Desktop Application   *Jan. 2019 - June. 2019*

- Managed project using the **Agile** design process in order to provide our client with as much flexibility as possible.
- Maintained constant contact with the client to update the requirements throughout the project time-line.
- Utilized **Electron**, **React**, and **Material-UI** to create a fluid, simple to use interface.
- Designed extensive algorithms to shape the output data into the client's end-user specifications.

Involvement

Madd Engine - Lead Developer   *University of Florida*

3D OpenGL Game Engine   *Jan. 2018 - Present*

- Implemented scalable object-oriented structure in **C++** with a Core Game Context and additional on-demand submodules.
- Lead our dev team in designing important modules, and identifying needed features for later versions of Madd.
- Utilized **GLFW** and **OpenGL**, **ASSIMP**, and **BULLET** for Graphics, Asset Management, and collisions.
- Goal was to create a stable game design framework that is easily understood by beginning game and engine devs.

Association of Computer Engineers   *University of Florida*

Project Manager   *Dec. 2018 - Dec. 2019*

- Planned tech talks with workshop chair to introduce new topics and concepts to members.
- Developed project ideas and plan of action with project chair to provide members with many opportunities to build on projects.

Skills

Languages/Tools   Python, C, Modern C++, Typescript, Git, GO, UNIX