

JAMES HARPER CLINE

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United States Citizen • Clearance Level: Secret

EDUCATION

Bachelor of Science in Computer Engineering

August 2017 - Present

Georgia Institute of Technology, Atlanta, GA. GPA: 3.38

SKILLS

Programming Proficient: C#, C++, C, Python

Beginner: Java, MATLAB, MIPS Assembly, SystemVerilog, LaTeX

Platforms Ubuntu Server, Ubuntu Desktop, Red Hat Enterprise, Jenkins, Kubernetes

Hardware ARM Mbed, Arduino Uno, TERMA ALQ-213, Altera DE2 FPGA

Software Visual Studio (Windows Presentation Foundation), Atlassian Suite, Autodesk EAGLE, JetBrains Software

EXPERIENCE

Software Engineering Co-Op at GTRI Atlanta, GA

May 2020 - December 2020

- Refactored the previous Event Aggregator Windows Presentation Foundation (WPF) component, improving maintainability and portability
- Developed an Event Aggregator test suite to use with Jenkins, increasing code coverage from under 70% to 100%
- Developed an Error Provider WPF component using a model-view-viewmodel framework to transmit error messages and display them to the user

Systems Engineering Co-Op at GTRI Atlanta, GA

May 2019 - May 2020

- Created a LaTeX template for ALQ-213 test procedures, increasing productivity by enabling test procedures to be version controlled
- Selected and implemented an acronym library for the test procedure template, allowing test procedure authors to clearly define and tag acronyms
- Developed a program to locate and report acronym errors in test procedure documents, eliminating acronym errors

Research Intern at The University of Georgia Athens, GA

May 2016 - August 2016

- Created augmented reality experiences for user avatar characters to participate in using Unity 3D, demonstrating the future utility of the virtual STEM buddy avatar system
- Traveled to the Children's Museum of Atlanta to demonstrate the virtual STEM buddy project, contributing to the team effort to secure funding

LEADERSHIP

Interfraternity Council VP of Communications Atlanta, GA

November 2020 - Present

- Emphasized committee recruitment for Interfraternity Council technology and public relations sub-committees, increasing committee membership by 900%

Delta Chi Fraternity Recruitment Chairman Atlanta, GA

January 2020 - August 2020

- Adapted recruitment strategy to be compatible with the challenges posed by Covid-19 by moving recruitment online using teleconferencing software
- Executed virtual recruitment successfully, increasing the number of new members by 106% from the previous year

PROJECTS

Unfoldit Android Kotlin, Dagger, Firebase Analytics, Single Activity MVVM Architecture

Aug 2018 - Present

Creation of Unfoldit Android, a mobile app to test and enhance your spatial awareness abilities

- Developed a production ready Android game focused on spatial awareness with Kotlin, modern libraries, and tests
- Finalists for the Georgia Tech 2019 InVenture Prize with 1000+ downloads and 100+ five-star reviews