

# Allen (A.J.) Steinhauser

ajsteinhauser.org | github.com/AJSteinhauser  
 ajsteinhauser11@gmail.com | 770-778-1263  
 5820 Macland Road Powder Springs, Ga 30127

## EDUCATION

### UNIVERSITY OF GEORGIA

#### BS IN COMPUTER SCIENCE

Graduated: May 2022 | Athens, GA

Franklin College of Arts and Sciences

Cum. GPA: 3.45 / 4.0

Major GPA: 3.79 / 4.0

### HILLGROVE HIGH SCHOOL

Grad. May 2017 | Powder Springs, GA

## SKILLS

### PROFICIENT LANGUAGES

Java • Python • Lua

### FAMILIAR LANGUAGES

C++ • C • HTML • CSS • VBA

MIPS ASM • SQL • Javascript

### OTHER SKILLS

Git version control

Developing in Linux environment

Adobe Design Suite: Photoshop,

Illustrator, After Effects, Lightroom

Markup Languages: LaTeX, Markdown,

XML

## COURSEWORK

### UNDERGRADUATE

Operating Systems

Compilers

System Programming

Computer Networks

Theory of Computation

Scientific Computing

## INVOLVEMENT

### UGA PHILHARMONIA

Violinist 2 years:

Weekly rehearsals for 2-3 concerts a semester

### UGA SWING CLUB

President 2 years:

Taught a weekly dance class. Introduced over 170 students to dance

### UGA RUF

Major events team 2022

Planned and executed events for the whole of RUF

## PROJECTS

### RUF ASSASSINS | WEB APPLICATION

- Developed a web application to facilitate game for RUF student organization.
- Features: face recognition, heat-map of player interaction, account creation, login, photo uploading, phone number confirmation, live game stats
- Technologies Used: Python, Django Web Framework, MySQL, Bootstrap, Twilio Communication API, HTML, CSS

### RORENDER | DESKTOP APPLICATION

- Orthographic image render application for the Roblox platform. > 3,052 downloads
- Features: auto-configuration, 4x super sampling, GUI settings manipulation
- Technologies Used: NodeJS, ElectronJS, Lua, Bootstrap, local servers, multi-threaded programming, JavaFX

### UNDEAD DEFENSE | GAME

- 2.5D top-down shooter game implemented on the Roblox platform. > 13,000 lines of code written and an additional 15,000 lines of third party libraries
- Features: Mobile, Xbox, and PC support, data saving, custom UI based on Google's Material design. m,l
- Technologies Used: Quad Tree, Boid algorithm, A\* pathfinding, client replication, linear interpolation

## WORK EXPERIENCE

### UNIVERSITY OF GEORGIA HOUSING | RESIDENT ASSISTANT

August 2021 – May 2022 | Athens, GA

- Fostered the development of relationships among 54 residents
- Planned and implemented 12 programs adhering to resident curriculum over the academic year
- Managed administrative duties: budgeting, maintenance requests, incident reports

### CHALLENGE COURSE | FACILITATOR

May 2019 – March 2020 | Athens, GA

- Facilitated the development of team mentality by leading groups through a variety high and low rope course elements
- Oversaw and coordinated the safety of individuals on several different rope systems
- Trained for and executed emergency repels from high ropes course.

### ECO-SWEEP | INDUSTRIAL CLEANER

May 2017 – January 2019 | Atlanta, GA

- Used industrial strength pressure washers and solvents to clean parking garages across the Atlanta area
- Worked and coordinated with several teams to complete large projects in parallel.
- Paid for several years of education without loans through working this job.