SPENCER C. IMBLEAU
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Education

Appalachian State University   North Carolina
M. Sci. Computer Science   *Aug 2020 – Present*
- GPA 3.67/4.0
- Expected Graduation: May 2022

Western Carolina University   North Carolina
B. Sci. Computer Science   *Aug 2015 – May 2019*
- GPA 3.1/4.0

Experience

Computer Science Teaching Assistant   Aug 2020 – Present
Appalachian State University   *Boone, NC, USA*
- Instructed undergraduate computer science laboratory classrooms
- Assisted in student success through office hours

Systems Engineer I   May 2019 – Jun 2020
Ingles-Markets, Inc.   *Black Mountain, NC, USA*
- Helped support, maintain, and install servers in an on-site data center
- Programmed digital signage software used in all retail stores
- Programmed critical VNC client software used by all corporate employees

Projects

'Power', a hardware-accelerated simulation engine   Nov 2020 – Present
Solo project   *Boone, North Carolina*
- Open-source visualized physics engine project
- Dual-support for software and hardware-accelerated graphics
- Designed for compatability on any architecture

Native game engine   Aug 2018 – May 2019
with Doctor William Kreahling   *WCU, North Carolina*
- Learned various subjects: Game theory, game design, collision detection, software rendering, pixel processing (shaders), online networking
- Optimized physics using calculus and separating axis theorem
- Online networking play and communication implementation

Skills

Languages: C/C++, Java, Python, SQL, Php, Javascript
Human Languages: English, Danish
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Eclipse, IntelliJ, Ansible
Platforms: Windows, RHEL 6/7/8, Fedora, CentOS, Ubuntu, Raspbian, OSX