

SPENCER C. IMBLEAU

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Education

Appalachian State University

M. Sci. Computer Science

North Carolina
Aug 2020 – Present

- ABET Accredited
- GPA 3.67/4.0
- Expected Graduation: May 2022

Western Carolina University

B. Sci. Computer Science

North Carolina
Aug 2015 – May 2019

- ABET Accredited
 - GPA 3.1/4.0
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Experience

Computer Science Teaching Assistant

Appalachian State University

Aug 2020 – Present
Boone, NC, USA

- Instructed undergraduate computer science laboratory classrooms
- Assisted in student success through office hours

Systems Engineer I

Ingles-Markets, Inc.

May 2019 – Jun 2020
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
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Projects

'Power', a hardware-accelerated simulation engine

Solo project

Nov 2020 – Present
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

with Doctor William Krehling

Aug 2018 – May 2019
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
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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