

# SPENCER C. IMBLEAU

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## Education

### Appalachian State University

*M.Sc. Computer Science*

North Carolina

Aug 2020 – Present

- ABET Accredited
- GPA 3.7/4.0 updated Spring 2021
- Expected Graduation: May 2022

### Western Carolina University

*B.Sc. Computer Science*

North Carolina

Aug 2015 – May 2019

- ABET Accredited
  - GPA 3.1/4.0
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## Experience

### Graduate Research Assistant

*Appalachian State University*

Jun 2021 – Present

Boone, NC, USA

- Conducting research on interactive scalable vector graphic rendering
- Bench-marking novel approaches to interactivity in physics simulations using SVG

### Graduate 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 in Java

*Solo project*

Nov 2020 – Feb 2021

Boone, North Carolina

- Open-source interactive graphics, input, physics engine library
- Dual-support for software and hardware-accelerated rendering
- Designed for compatability on any architecture

### Native Java game engine

*with Dr. William Krehling*

Aug 2018 – May 2019

Cullowhee, North Carolina

- Demonstrate various subjects: game theory, design, collision detection, rendering, input, application-layer, networking
  - Implemented native calculus-based physics library
  - Multiplayer safety, chat, and play
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## Skills

**Languages:** Rust, Java, Python, Php, JS, C, C++, SQL, HTML/CSS

**Human Languages:** English, Danish

**Developer Tools:** Git, Google Cloud Platform, Visual Studio Code, Visual Studio, Eclipse, IntelliJ, Ansible, Phpmyadmin, cPanel **Frameworks:** Tensorflow, .NET (& Core), Django, Selenium, WordPress

**Platforms:** Windows, RHEL 6/7/8, Fedora, CentOS, Ubuntu, Raspbian, OSX