

SPENCER C. IMBLEAU

✉ spencer@imbleau.com | [in simbleau](https://www.linkedin.com/in/simbleau) | [G simbleau](https://github.com/simbleau) | ☎ +1 (704) 747-5126

Education

Appalachian State University

M.Sc. Computer Science, Concentration in Systems, 3.7

- ABET Accreditation
- Expected Graduation: May 2022

North Carolina

Aug 2020 – Present

Western Carolina University

B.Sc. Computer Science, Minor in Mathematics, 3.1

- ABET Accreditation

North Carolina

Aug 2015 – May 2019

Experience

Graduate Research Assistant

Appalachian State University

- Conducting analysis on GPU vector graphic rendering techniques with a focus on interactivity
- Bench-marking novel approaches to rendering vector graphics leveraging GPU architecture, algorithms, and data structures

Jun 2021 – Present

Boone, NC, USA

Graduate Teaching Assistant

Appalachian State University

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

Aug 2020 – Present

Boone, NC, USA

Systems Engineer I

Ingles-Markets, Inc.

- 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

May 2019 – Jun 2020

Black Mountain, NC, USA

Projects

'Power', a hardware-accelerated simulation engine in Java

Solo project

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

Nov 2020 – Feb 2021

Boone, North Carolina

Native Java game engine

with Dr. William Krehling

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

Aug 2018 – May 2019

Cullowhee, North Carolina

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