

SPENCER C. IMBLEAU

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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

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

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.

- Worked in an Information Technology environment under the Unix Engineering team.
- Programmed external production software and internal tooling for corporate employees
- Maintained an on-site data center.

May 2019 – Jun 2020

Black Mountain, NC, USA

Projects

'nvtx-rs', a GPU/CPU Profiler FFI Binding for NVTX in Rust

with Dr. Mitch Parry

- Toolkit for GPU and CPU profiling and analysis with event annotations
- Wraps the NVIDIA® Tools Extension SDK (NVTX) with FFI
- Leading open-source initiative and working in the open

May 2021 – Present

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, C, Java, Python, Php, C++, SQL, JS, HTML/CSS

Human Languages: English, Danish

Developer Tools: Git, Google Cloud Platform, Visual Studio Code, Visual Studio, Eclipse, IntelliJ, PhpMyAdmin, cPanel, Ansible

Frameworks: Tensorflow, .NET (& Core), Django, Selenium, WordPress

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