

SPENCER C. IMBLEAU

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Education

Appalachian State University

M.Sc. Computer Science, Concentration in Systems, 3.7/4.0

- ABET Accreditation
- Graduation awaiting thesis defence (May 2022)

North Carolina, USA

Aug 2020 – Present

Western Carolina University

B.Sc. Computer Science, Minor in Mathematics

- ABET Accreditation

North Carolina, USA

Aug 2015 – May 2019

Experience

Software Engineer

NASA, Kennedy Space Center

- Deobfuscation and understanding of complex software systems
- Testing and monitoring of Command and Control software
- System administration and server management

Dec 2021 – Present

Titusville, FL, USA

Research, Teaching Assistant

Appalachian State University

- Programmed agnostic test frameworks to capture metrics on the GPU and CPU
- Testing, profiling, and benching across experimental libraries for data collection
- Instructed undergraduate computer science exercises and coursework

Aug 2020 – Dec 2021

Boone, NC, USA

Systems Engineer

Ingles-Markets, Inc.

- Worked in Information Technology setting under the Unix engineering team
- System administration, maintenance, and management of production enterprise servers
- Programmed production software and internal tooling
- Maintained an on-site data center

May 2019 – Jun 2020

Black Mountain, NC, USA

Technical Skills

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

Human Languages: English★★★★, Danish★★☆☆

Developer Tools: Git, Bash, Vim, Visual Studio Code, Eclipse, IntelliJ

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

Content Management: Ansible, GitHub, GitLab, Google Cloud Platform, cPanel, WordPress

Frameworks: Vue, JUnit, Selenium

Coding Projects

'vgpu-bench', image model benchmarking framework

with Dr. Mitch Parry

- Benchmarking framework for vector graphics and technologies
- Focusing on hardware accelerated graphics and dynamism for vector rendering

Jun 2021 – Present

Boone, North Carolina

'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

May 2021 – Jun 2021

Boone, North Carolina