

# SPENCER C. IMBLEAU

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## Education

### Appalachian State University

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

- ABET Accreditation
- Expected Graduation: 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*

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## Experience

### Software Engineer

*NASA, Kennedy Space Center*

- Deobfuscation and understanding of complex software systems
- System administration and server management
- Testing and validation of Launch and Control software

Starting Dec 2021

*Titusville, FL, USA*

### Research, Teaching Assistant

*Appalachian State University*

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

Aug 2020 – Present

*Boone, NC, USA*

### Systems Engineer

*Ingles-Markets, Inc.*

- Worked in Information Technology 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*

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## Technical Skills

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

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

**Developer Tools:** Git, Visual Studio Code, Visual Studio, Eclipse, IntelliJ, Google Cloud Platform

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

**Content Management:** GitHub, GitLab, cPanel, WordPress, Hostgator, GoDaddy, DK Hostmaster

**Frameworks:** JUnit, Django, Selenium

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## 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

May 2021 – Present

*Boone, North Carolina*