SPENCER C. IMBLEAU

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Education

Appalachian State University   North Carolina, USA
M.Sc. Computer Science, Concentration in Systems, 3.7   *Aug 2020 – Present*
- ABET Accreditation
- Expected Graduation: May 2022

Western Carolina University   North Carolina, USA
B.Sc. Computer Science, Minor in Mathematics, 3.1   *Aug 2015 – May 2019*
- ABET Accreditation

Experience

Teaching, Research Assistant   Aug 2020 – Present
Appalachian State University   *Boone, NC, USA*
- Instructed undergraduate computer science laboratory classrooms
- Routinely held office hours to further student success
- Conducting analysis on GPU vector graphic rendering techniques with a focus on interactivity
- Bench-marking and analysis of GPU vector graphic algorithms and data structures

Systems Engineer I   May 2019 – Jun 2020
Ingles-Markets, Inc.   *Black Mountain, NC, USA*
- Worked in an Information Technology environment under the Unix Engineering team
- System administration, maintenance, and management of production enterprise servers
- Programmed production software and internal tooling for corporate employees
- Maintained an on-site data center

Projects

'nvtx-rs', a GPU/CPU Profiler FFI Binding for NVTX in Rust   May 2021 – Present
with Dr. Mitch Parry   *Boone, North Carolina*
- Toolkit for GPU and CPU profiling and analysis with event annotations
- Wraps the NVIDIA® Tools Extension SDK (NVTX) with FFI

Native Java game engine   Aug 2018 – May 2019
with Dr. William Kreahling   *Cullowhee, North Carolina*
- From scratch with no libraries or dependencies, completely CPU bound
- Demonstrates game theory, rendering, input, physics, and networking
- Implements advanced algorithms such as calculus-based physics and collision detection

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
Frameworks: WordPress, Django, Selenium
Platforms: RHEL 6/7/8, Fedora, CentOS, Ubuntu, Raspbian, Windows, OSX