

Robert Casey Lafferty

(913) 980 - 0216

rlafferty@huskers.unl.edu

github.com/rlafferty

rlafferty.github.io

Education

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| University of Nebraska-Lincoln , Lincoln, NE | Dec 2020 |
| Master of Science in Computer Science | CS GPA: 3.39 |
| Kansas State University , Manhattan, KS | May 2017 |
| Bachelor of Science in Computer Science Minor: Music | CS GPA: 3.26 |

Computer Skills

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| Languages | C++, C#, Java, C, Python, MySQL, PHP, HTML5, CSS3, NodeJS |
| Developer Tools | Git, Visual Studio, VS Code, PyCharm, Android Studio, Spyder, R Studio |
| Network/Security | Wireshark, Metasploit, Social Engineering Toolkit, theHarvester |

Projects

Packet Delivery (Unity C#) – Master’s Thesis

- 2D roleplay game where the player utilizes a postal service analogy to learn DNS Lookup
- Designed and instituted optional gameplay systems to further teach about networking optimizations

FrogBot (NodeJS) – Side Project

- Gaming-centric Discord bot to connect players with mutual or similar games
- Developed asynchronous code to retrieve data from gaming platform APIs and compare user info

Haircut Simulator (Unity VR C#) – Summer 2019 Internship Project

- Virtual Reality (VR) haircut simulator targeted to Oculus Quest for use in autism research and therapy
- Optimized editor tools, UI options, and user experience to aid the patient and therapist

UNL GDC Database (Python, MySQL, PHP, HTML/CSS) – Club Project

- Club database for hosting member attendance, contact information, and sending official club emails
- Engineered web interface for sending emails and viewing member information

Professional Work Experience

Scientist 2021 – Present

Naval Surface Warfare Center, Dahlgren, VA

- Implemented incremental fixes to legacy, mission-critical C++ code
- Initiated a process to streamline new hire onboarding documentation and exercises

Graduate Teaching Assistant – Intro to Comp. Sci. I 2019 - 2020

University of Nebraska-Lincoln, Lincoln, NE

- Managed UTA and GTA grading policies and assigned grading
- Developed and presented GitHub tutorial wiki based on industry standards

VR Development Intern 2019

University of Nebraska Medical Center, Omaha, NE

- Designed and developed a simulation in Unity VR C# to use in autism research
- Led team of three interns to implement specifications based on patient requests

Honors & Activities

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| Co-Founder, President - UNL Game Development Club | 2018 - 2019 |
| Department Student Representative – Graduate Teaching Assistants | 2017 - 2018 |
| Participant in KSU ACM Programming Contest (out of 45+ teams) | 2013 - 2017 |
| Eagle Scout | September 2012 |