

GRACE LYTLE

[GraceLytle.Tenacious3.com](https://gracelytle.tenacious3.com) | Boise, ID | (208) 891-7331 | Grace@Tenacious3.com | Github [GraceLytle](#)

EDUCATION

Bachelor of Science in Computer Science, Emphasis in Cybersecurity

Master of Science in Cybersecurity, Emphasis in Computer Science

Boise State University

- Bachelor's Completion May 2025 | Master's Completion May 2027
- **CyberCorps®: SFS BRONCO SHIELD Scholar**
- Cumulative GPA: 3.4 | Computer Science GPA: 3.67

Bachelor of Arts in Multidisciplinary Studies

Minor in Music, Emphasis in Trumpet Performance

Boise State University | May 2019

CERTIFICATION

CompTIA Security+ | In Progress

SKILLS

Programming Languages

Java (Advanced), Python (Advanced), C# (Advanced), SQL (Intermediate), C/C++ (Intermediate)

Web Development Languages

HTML (Advanced), CSS (Advanced), JavaScript (Int.), Pug (Adv.), Go (Adv.), SQL (Int.), Node.js (Int.), React (Int.)

Cybersecurity & Development Tools

Stellar Cyber (SIEM), Confluence, Jira, Fiddler, Microsoft Office Suite, Chrome Developer Tools, FileZilla, LaTeX

Integrated Development Environments

Microsoft Visual Studio, Visual Studio Code, IntelliJ IDEA, SQL Management Studio, Jupyter Notebook, Anaconda, Vi Editor

Operating Systems

Windows, Linux

CYBERSECURITY

Institute for Pervasive Cybersecurity

August 2024 – Current

A volunteer part of a collaborative cybersecurity team that works to mitigate security risks for small companies in rural Idaho

- Utilized Stellar Cyber SIEM tool for log aggregation, incident correlation, and escalation
- Managed cybersecurity documentation and workflow guides in Confluence
- Handled service tickets and incident tracking through Jira

Cryptography

Python scripting using SageMath

- RSA and ElGamal encryption and decryption
- RSA public key attacks, including Fermat, Initial Segment, One Line, GCD, and Pollard P-1

PortSwigger Server-side Vulnerabilities Course

Introduction to various types of vulnerabilities, including how attackers identify and exploit them in real-world systems

- Path Traversal, Access Control, Authentication, Server-side Request Forgery (SSRF), File Upload Vulnerabilities, OS Command Injection, SQL Injection

PROJECTS

[Artificial Intelligence ML-based Detection of Cyber Attacks](#) | October 2024

Applied Random Forest, Decision Tree, Artificial Neural Networks, and Support Vector Machines to phishing detection, network intrusion, and Android malware datasets from Kaggle

- Conducted 10-fold cross-validation with parameter optimization
- Analyzed errors using unsupervised clustering to identify misclassification patterns and iterated on parameter settings to maximize model performance

Source code: <https://github.com/GraceLytle/CS597-CyberAI-PI>

[Security and Cryptography RSA Key Generation Challenge](#) | December 2023

Developed a robust public RSA key that resisted attacks in a cryptography challenge

- Successfully utilized Python scripting in SageMath to perform RSA key analysis on classmates' public keys
- Identified and iterated over classmates' public keys weaknesses, cracking three other RSA keys using Fermat's attack

Source code: Email for access

Portfolio site: <https://gracelytle.tenacious3.com/#portfolio>

[BauerMusicStudio.com](#) | June 2021 - Current

Developed, built, and maintain a custom Azure static app

- Hugo Static site generator with templating in Go

[BeMyValentine.tenacious3.com](#) | February 2024 - Current

Developed, built and maintain a custom React site hosted as an Azure static app

- Uses components for UI and state management and event handling for user interactions

[GooseCreekCoffeeRoasters.com](#) | March 2024

Built a Custom Shopify Site

[JMB-INS.com](#) | July 2022

Created a Custom Square Space Site

LEADERSHIP & TEAM EXPERIENCE

[Boise State University Artificial Intelligence for Cybersecurity Club](#) | August 2024 – Current

Treasurer and Event Coordinator

Exploring the intersection of AI and cybersecurity

- Collaborated as a club to train and launch a Large Language Model (LLM) using PyTorch, gaining hands-on experience in deep learning frameworks and model deployment

[Brass Band of the Treasure Valley](#) | August 2022 - Current

Section cornet player for Idaho's premier British brass ensemble

[Boise State University Trumpet Club & Ensemble](#) | August 2016 - May 2018

President of the BSU Trumpet Club & Ensemble

- March 2018, coordinated event and wrote grant to obtain funding for Tom Hooten, Principal Trumpet of the LA Philharmonic, to visit the BSU Music Department

[Keith Stein Blue Thunder Marching Band](#) | August 2014 - May 2018

A trumpet player in the Blue Thunder Marching band for BSU.

VOLUNTEER EXPERIENCE

[Gene Harris Jazz Festival](#) | April 2015 - April 2019

A volunteer supporting the festival's mission of bringing world-class jazz musicians and educators to Idaho

WORK EXPERIENCE

Bartender | The Gas Lantern Drinking Company

February 2021 - October 2021 | Part-time 10 - 20 hrs.

Bakery Clerk | Albertsons on Broadway

October 2018 - May 2019 | Part-time 20 - 30 hrs. | October 2019 – May 2020 | Full-time

Packaging Technician | Mother Earth Brewing Company

May 2019 - September 2019 | Full-time

Bartender & Staff | Alibi Industries

April 2018 - May 2019 | Part-time 20 - 30 hrs.

Sales Associate | Old Navy

June 2017 - May 2019 | Part-time 10 - 20 hrs.

Home & Garden Associate | Fred Meyer

May 2016 - June 2017 | Part-time 20 hrs.

Principal Trumpet Player | All Saint's Presbyterian Church

November 2014 - May 2019 | Part-time 3 hrs.

Shift Manager | Papa Murphy's

August 2014 - April 2018 | Part-time 20 - 30 hrs.

AWARDS

CyberCorps®: Scholarship for Service BRONCO SHIELD Scholar

June 2024 - Current

Lightfoot Foundation Scholar

August 2022 - May 2025

REFERENCES

Distinguished Professor Marion Scheepers

Professor of Mathematics

(208) 426-1033 | mscheepe@boisestate.edu

Professor Andre Keys

Clinical Professor of Computer Science

(208) 426-5766 | andrekeys@boisestate.edu

Professor Shane Panter

Clinical Assistant Professor of Computer Science

(208) 426-3317 | shanepanter@boisestate.edu

Dr. Derek Ganong

Assistant Professor: Trumpet, Director of Jazz Studies

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