

GRACE LYTLE

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EDUCATION

Bachelor of Science in Computer Science, Emphasis in Cybersecurity

Master of Science in Cybersecurity, Emphasis in Computer Science, Certificate in Data Science

Boise State University

- Bachelor's Completion May 2025 | Master's Completion May 2027
- **SFS BRONCO SHIELD CyberCorps® 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+

Completion Date: November 2024

SKILLS

Programming Languages

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

Web Development

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

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

Data Structures & Concepts

Cache Mechanisms

- Simulated a web server using a linked list implementation of a generic cache to store webpages

Priority Queues

- Priority-based task management implementing a Priority Queue extending the Maxheap data structure

Hash Tables

- Abstract Hashtable class that maps keys to values for efficient data retrieval using open addressing. Linear probing and double hashing are used to resolve collisions

Integrated Development Environments

Microsoft Visual Studio, Visual Studio Code, IntelliJ IDEA, SQL Management Studio, Vi Editor

Operating Systems

Windows, Linux

Tools

Fiddler, Microsoft Office Suite (Word, Excel), Chrome Developer Tools, FileZilla, LaTeX

CYBERSECURITY COURSES

PortSwigger Server-side Vulnerabilities

Completed July 2024

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

PROFESSIONAL PROJECTS

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

Built 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

VOLUNTEER EXPERIENCE

Institute for Pervasive Cybersecurity

August 2024 – Current

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

Gene Harris Jazz Festival

April 2015 - April 2019

A volunteer that helps the festival achieve their mission of enriching the Treasure Valley by bringing world-class performing artists and educators to Idaho

LEADERSHIP & TEAM EXPERIENCE

Boise State University Artificial Intelligence for Cybersecurity Club

August 2024 - Current

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 of 2018 Tom Hooten, Principal Trumpet from the LA Philharmonic visited BSU Music Department

Keith Stein Blue Thunder Marching Band

August 2014 - May 2018

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

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

SFS BRONCO SHIELD CyberCorps® 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 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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