

Jiayu Liu

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EDUCATION

New York University

Sept. 2022-May 2024

Master of Science in Computer Engineering, GPA 3.5/4.0

New York City, NY

- **Courses:** Internet Architecture and Protocol, Data Structure and Algorithms, Computer Systems Architecture, Machine Learning, Real-Time Embedded Systems
- **Scholarships and awards:** Yearly Merit Scholarship for two consecutive years starting from Fall 2022

Boise State University

Aug. 2018-May 2022

Bachelor of Science in Computer Science, GPA 3.7/4.0

Boise, ID

- **Core courses:** Data Structures, Intro to System Programming, Design and Analysis of Algorithms, Agile Development, Operating Systems, Digital Systems, Microprocessors, Network Security and Defense, Discrete Math, Linear Algebra
- **Scholarships and awards:** Dean's List with Honors: Spring 2020, Fall 2020, Spring 2021, Fall 2021; Yearly GEM Scholarship for four consecutive years starting from Fall 2018

PROJECT/RESEARCH

New Hire Onboarding Application

Jan.2022-May 2022

Sponsored Capstone Project with Micron Technology

Boise, ID

- A 4-month-long onboarding application project working with Micron Technology for their new hires' training platform
- Used Angular with bootstrap for the frontend, ASP.NET for the backend, and MongoDB for the database
- Implemented CRUD functionalities for different training modules and role-based access control for different users (e.g., Normal users would have access to the modules that are only assigned to them.)
- Followed the test-driven development process with Unit and Integration testing; tested the frontend with Selenium WebDriver and endpoints with Postman
- Had experience with Agile Development, and managed the team's GitHub repository, including setting up CI/CD with GitHub Action, creating/assigning tasks, reviewing pull requests, squashing commits and solving merge conflicts, etc.

Joint research project between Boise State University & University of Wisconsin-Madison

Jan.2021-Jan.2022

Undergraduate Research Technician of Informatics Skunkworks

Boise, ID

- Improved image classification accuracy from 90% to 97% and reduced classification time by 20%
- Classified over 500 nanostructure images taken from atomic force microscopy
- Developed and trained convolutional neural networks with Python to scan and identify quantum dots within an image
- Using built-in MATLAB functionalities to replicate the experiment in papers in microscopic image detection
- Attended the progress workshop and presented semester-long progress slides to BSU and UW-Madison research teams

WORKING EXPERIENCE

Institute for Pervasive Cybersecurity, Boise State University

Oct. 2021-May 2022

Cybersecurity Analyst

Boise, ID

- Monitored client networks and computer systems to prevent, detect and investigate security breaches using Stellar Cyber
- Followed documented standard operating procedures and provided recommended updates on procedures as needed
- Applied critical thinking skills to security event data and determined the likelihood of possible attacks
- Self-directed research on topics such as Spring4Shell 0-day vulnerability
- Self-directed research on better utilization of the tools like Stellar Cyber that are used in the workflow

Lovevery, Inc.

July 2020-Aug. 2020

Mobile Application Translator

Boise, ID

- Helped the engineering team to understand the structure of the application like the functionalities, usage and layout
- Communicated with the engineering team and my supervisor weekly to talk about the structure based on their insight of the application that I translated
- Prepared 60-page technical slides and documents about the structure of the application that I translated using Google Sheets & Google Slides

TECHNICAL SKILLS

Languages: Java, JavaScript, C, Python, SQL, HTML/CSS

Tools/Frameworks/Libraries: Springboot, React Native, React, Git, Heroku, Docker, Postman, MySQL, Gradle