

Ana Verulidze

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EDUCATION

Earlham College | Bachelor of Arts in Computer Science, GPA: 3.94 Richmond, IN | May 2023

- *Coursework:* Software Engineering, Algorithms, Data Structures, Linear Algebra, AI & Machine Learning
- *Honors:* Davis United World Scholar, Malcolm Scholar (Showing promise of achievement in Computer Science), Charles A. Frueauff Foundation Awardee (Achievement in science and creativity)

United World College Maastricht | International Baccalaureate Diploma Maastricht, Netherlands | May 2019

SKILLS & LANGUAGES

Technical: C, C#, Python, HTML, CSS, JavaScript, Linux Shell scripting, Kali Linux, SageMath, Pycharm, AWS, Unity

Languages: English, Georgian, Russian, German, Japanese

EXPERIENCE

Earlham College | Tutor/Teacher Assistant Richmond, IN | January 2020 - Present

- Assist students with their assignments in programming, problem-solving, and data structures
- Organize one-on-one tutoring sessions with students and grade student Assignments
- Collaborate with the CS faculty to create a strategy for improving the student learning experience

Green Filing Research Project | Software Developer Richmond, IN | September 2020 - December 2021

- Developed software to automate the extraction of specific information from PDF files using Amazon Web Services
- Developed a Python program for distinguishing and classifying official documents to improve the user experience
- Improved accuracy of the existing data extraction software by 8% through testing and adding new extraction features

Icelandic Field Studies Research Project | Student Researcher Richmond, IN | February 2022 - Present

- Collect aerial image data at different elevations and produce graphs to analyze the drone battery discharge rate at different heights
- Develop a Python program to extract data such as location, longitude, and altitude from aerial images
- Closely collaborate with student researchers in planning the data collection and analysis process in Skalanes, Iceland

Earlham College Web Development Applied Group | Web Developer Richmond, IN | February 2022 - Present

- Maintain Earlham College's Computer science website through bug fixes and publications
- Develop a Website for Earlham College's student organizations using WordPress, HTML/CSS, and shell scripting
- Create documentation on getting started with WordPress web development for new members of the group

CodePath | Cybersecurity Tech Fellow Remote | February 2020 - Present

- Collaborate with a student leader and faculty member to support, assess and improve student learning experience
- Provide technical troubleshooting and feedback to students during XSS, SQL injection, and Cryptography projects
- Maintain 100% assignment submission and attendance rates through engagement activities and weekly reminders

PROJECTS

Image compression: Compressed PNG/JPG/GIF files via k-means clustering algorithm to reduce memory consumption

Japanese NLP

- Developed software to automate spacing between meaningful parts of Japanese sentences using Python
- Collected data such as parts of speech, Dictionary forms, and readings of words through web scraping in Python

Lights Out puzzle solver

- Co-designed and developed a tool to find a solution, total # of solutions, and the first color that a solution exists for
- Implemented the Gaussian Elimination & the Euclidian Algorithm in SageMath to find # of non-prime colors in puzzle

LEADERSHIP EXPERIENCE

Co-founder, Earlham Tech Week | Earlham College April 2021 - Present

Leader, The Association for Computing Machinery's Council on Women | Earlham College January 2021 - Present

Leader, Earlham Hackers Club | Earlham College June 2020 - Present