

Joshua Lancaster

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OBJECTIVE

To further experience in driving development with large scale software architecture, graphical applications, and intelligent algorithms by engaging in complex problem solving in a professional environment

EDUCATION

Georgia Institute of Technology - Atlanta, Georgia

Fall 2020 - Spring 2024

- Bachelor of Science in Computer Science
 - Concentration in Artificial Intelligence and Media
 - Minor in Science Fiction Studies
 - GPA: 3.55

- Master of Science in Computer Science
 - Concentration in Computer Graphics in Systems

Fall 2024 - Spring 2025

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Machine Learning, Data Input and Manipulation, Robotics and Perception, Objects and Design

SKILLS

Software: IntelliJ, Pycharm, GitLab, Adobe Photoshop, Hitfilm Studio, Power BI, Snowflake

Programming: Java, Python, Javascript, C, C++, React, PyQt, Pandas, Beautiful Soup, SQL, Firebase, SnowSQL

Operating Systems: Windows, Raspbian, Ubuntu, Mac OS

Communication: Experience managing teams, facilitating meetings, and delivering software demo presentations

WORK EXPERIENCE

Kudelski Security, Atlanta, GA | August 2022-December 2022 & May 2023-August 2023 *Software Engineer*

- Contributed to an IoT protocol patent to optimize Thread network connectivity
- Spearheaded the development of dynamic real-time dashboards, enhancing data visualization capabilities across multiple cloud sources using Snowflake, Python, and PowerBI. This innovation empowered analysts with quick, insightful data access.
- Implemented front and backend updates to internal tools that securely managed client passwords in React

Xultrix LLC, Woodstock, GA | June 2021- December 2021 *Product Research and Development Intern*

- Customized emulation software written in C++ for handheld media devices
- Debugged graphics libraries such as OpenGL, OpenGLES, and Vulkan to compile on Linux distros
- Analyzed different approaches to retro handheld development

AWARDS

Objects and Design Project | Fall 2021 Objects and Design Tower Defense Competition, Second Place

Zell Miller Scholarship Recipient | Fall 2020- Present Georgia Scholarship Program

ACTIVITIES AND PROJECTS

The Daily GG | Ongoing

- A personal project using generative AI models to publish specialized statistical reports in Discord servers for competitive gamers and their coaches

Wine and Machine Learning - CS 4641 Semester Project | Spring 2023

- Conducted research on the capabilities of different supervised machine learning techniques in analyzing wine quality and predicting color based on chemical content

Label Me Audio by AudioT - Junior Design Capstone | Spring & Fall 2023

- An audio labeling web app to generate a novel dataset to be fed into a supervised machine learning model that will index audio samples from poultry farms to mitigate the spread of diseases