

Inesh Loka

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Education

The Ohio State University

Columbus, OH

- B.S. With Honors, Computer Science and Engineering, Expected December 2025
- Cumulative GPA: 3.76

Work Experience

London Computer Systems

Software Development Intern

Cincinnati, OH (May 2023 – August 2023)

- Implemented major bug fixes and feature improvements on enterprise-level rental accounting software with over 30,000 corporate clients using C#, MySQL and AngularJS.
- Overhauled financial reporting utilities with improvements in performance and design to facilitate migration to a web-based platform.
- Engaged in Agile software development utilizing Gitlab CI, Jira and Confluence for continuous application improvement and collaboration with business analysts and quality assurance engineers.

Leadership

OSU Artificial Intelligence Club

Technology Committee Member

(September 2022 – Present)

- Assisted 50+ club members in weekly workshops teaching the fundamentals of deep learning with a project based approach.
- Created a collection of resources to assist students with deep learning-based projects, including deployment guides using custom APIs and cloud services and implementations of models for various use cases in computer vision, natural language processing and audio signal processing.
- Led redesign of the club website using static HTML and CSS to market the club to potential members.

Projects

Fast Containers

Linux containers using CLI or GUI

(August 2023)

- Implemented a lightweight Linux containerization system in C using namespaces and cgroups.
- Designed a frontend in Rust using Tauri with efficiency in mind for developers looking to use containers as development environments.

Soundbite

Lightweight audio capture and modification utility for Linux

(July 2023)

- Built a low-level API for sound capture and manipulation in Rust using CPAL and Hound.
- Designed a lightweight GUI using Tauri to allow users to record, play, and modify audio files.

Stickerbomb

Image segmentation artificial intelligence model and web application

(May 2023)

- Implemented an image segmentation AI model based on UNet using PyTorch to extract subjects from images and generate digital stickers.
- Designed a web application to allow users to upload images and generate stickers.
- Wrote a blog post detailing the process of creating and deploying the model to AWS.

Maze Solver

Computer vision based maze solver

(January 2023)

- Implemented a maze solver using computer vision and pathfinding algorithms in Python.
- Created a web server using Flask to allow users to upload images of mazes and receive solutions.

Qualifications

Languages	C, Python, JavaScript, C#, Java, C++, Rust, x86 Assembly (AT&T), Bash, SQL
Data	PyTorch, SciKitLearn, Matplotlib, TensorFlow
Web	Django, Flask, React, NextJS, Angular, NodeJS
Desktop	Qt, Tauri, Make, .NET WPF, Java Swing
Other	Git, MongoDB, MySQL, AWS Lambda, EC2, SageMaker, Google Firebase, Vercel
Courses	Software Development & Design, Low-Level Programming & Computer Organization, Discrete Structures, Data Structures & Algorithms, Statistics, Linear Algebra, Calculus