

Inesh Loka

ineshloka@gmail.com

www.linkedin.com/in/inesh-l

www.ineshloka.com

Education

The Ohio State University

Columbus, OH (2022–Present)

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

Work Experience

London Computer Systems

Software Development Intern, LCS RentManager Innovation

Cincinnati, OH (May 2023–August 2023)

- Implemented 30+ major bug fixes and feature improvements on enterprise-level rental accounting software with over 30,000 corporate clients. Skills used: C#, .NET WPF, MySQL.
- 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 improvement and close cooperation with team members and stakeholders.

Leadership

OSU Artificial Intelligence Club

Technology Committee Member

(September 2021 – 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.

Projects

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.

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 C++ and Qt to allow users to easily record and modify audio snippets.

ineshloka.com

Personal blog and portfolio

(July 2023)

- Created an SEO-optimized site using NextJS to showcase projects and host blog posts.

Qualifications

Languages

Python, C#, JavaScript, Java, C, C++, 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