Inesh Loka

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Education

The Ohio State University   Columbus, OH (2022–Present)
- B.S. With Honors, Computer Science and Engineering, Exp. December 2025
- Cumulative GPA: 3.76

Leadership

OSU Artificial Intelligence Club
Technology Committee Member   (September 2021 – Present)
- Led 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.

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.

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.

2022 RevolutionUC Hackathon
Educational stock market game   (February 2022)
- Created an educational and interactive simulation game using data from the 2005-2007 stock market bubble with React to educate users on safe investing, located at ucstocks.github.io.
- Won the Best Educational Hack award from Fifth Third Bank.

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 Lamba, EC2, SageMaker, Google Firebase, Vercel
Courses	Software Development & Design, Low-Level Programming & Computer Organization, Discrete Structures, Data Structures & Algorithms, Statistics, Linear Algebra, Calculus