

Anurag Lodhi

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PROJECT EXPERIENCE

Jlox Language Interpreter | *Java, Git, GitHub*

- Developed a tree-walk interpreter in Java for a programming language
- Implemented design patterns like visitor pattern using OOPS
- Supports variables, conditional branches and loops
- Supports functions for code reuse

Hand-drawn Doodle Recognition | *Python, Typescript, React, Git*

- Trained CNN on to recognize doodles on 345 categories
- Created user-friendly UI to draw doodles and test the neural network

MNIST Digit Classifier | *Go, Multilayer Perceptrons, JSON*

- Developed program to classify handwritten digits in the MNIST dataset from scratch
- Developed neural network using deep learning methods
- Made the network portable using JSON

URL Shortener | *Go, SQL(MySQL), HTML, CSS, HTMX, REST APIs*

- Shortens long URLs into short links using collision resistant CUIDs
- Created REST APIs in Go to support CRUD operations
- Deployed database on MySQL
- Implemented asynchronous HTTP requests and DOM manipulation using HTMX

SKILLS

Languages: C, C++, Java, Go, JavaScript, Python, SQL, Typescript, HTML/CSS

Developer Tools: Linux, Git, GitHub, Docker, VS Code, IntelliJ

Frameworks: React, TailwindCSS, NextJS

EDUCATION

Lakshmi Narain College of Technology

Bhopal, IN

Bachelor of Technology in Computer Science and Engineering (8.49 CGPA)

Aug 2021 – 2025

- **Coursework:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Theory of Computation, Object Oriented Programming, Software Engineering

Christ Church Convent School

Gadarwara, IN

Higher Secondary School (Score: 93.4%)

Apr 2019 – Mar 2021

- **Concentrations:** Mathematics, Physics, Chemistry

Kabra Memorial Public School

Gadarwara, IN

High School (Score: 91.2%)

Apr 2016 – Mar 2019

CERTIFICATES

AWS Cloud Technical Essentials | *AWS, Coursera*

- Learned about AWS services and how to use them

Introduction to C++ | *Indian Institute of Technology Bombay, NPTEL*

- Learned about fundamentals of the C++ programming language
- Achieved Gold certificate with a score of 92%

Web Design for Everybody Specialization | *University of Michigan, Coursera*

- Learned about HTML, CSS and JavaScript
- Learned and applied responsive web design and accessibility principles

ACHIEVEMENTS

GATE: Achieved a score of 621 with rank 2067

Codechef: 3* with a rating of 1649 (Highest global rank 274)