

# Raghav Gupta

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## EDUCATION

### GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

B.TECH. IN ECE

Aug 2021 | CGPA 7.972

### NEW GREEN FIELD SCHOOL

HIGHER SECONDARY - CBSE

May 2017 | Percentage : 86.25

SENIOR SECONDARY - CBSE

May 2015 | CGPA : 8.6

## LINKS

LinkedIn:// [raghavgupta](#)

Leetcode:// [ragss](#)

Github:// [raghavgupta](#)

## COURSEWORK

Data Structures

Database Management System

Computer Networks

Computer Architecture

Digital Image Processing

Analog Electronics

Embedded Systems

Microprocessors

## SKILLS

### PROGRAMMING LANGUAGES

C++ • Python • Javascript • C#

### DEVELOPMENT

HTML • CSS • NodeJS • React

• MongoDB • Docker • Low

Level Design

### AUTOMOTIVE

HIL Testing ADAS • V&V

Protocols :

CAN • LIN • Ethernet

Vector Tools :

CANoe • CAPL Scripting • CANape

## CERTIFICATIONS

**Web Development** - Udemy

**Deeplearning Specialization** -  
deeplearning.ai (Coursera)

**Internet Of Things** - DreamUny  
Education

## EXPERIENCE

### ALGOUNIVERSITY (YC21) SDE EXTERNSHIP

- Built an online judge that runs the code securely and judges if the given code is **correct/ wrong/ inefficient**.
- Allows users to write, compile, and execute code in various programming languages (C, C++, Python).
- Developed the backend server using **Node.js** and **Express.js**, while creating an interactive and responsive frontend using **HTML**, **CSS**, and **React**.
- Employed **JWT** for user **authentication** and **authorization** and implemented **client side caching** to reduce site loading times.
- Implemented **code isolation** from scratch with **Docker** and plan to deploy on an **EC2 instance** in the **AWS production environment**.
- Used **MongoDB** for the **database**, achieving a **28%** reduction in **latency** and enhancing **database storage** by compressing each test case, reducing its size by **36%**.

### TATA CONSULTANCY SERVICES SYSTEMS ENGINEER

October 2021 - Present

- Collaborated with a team to develop and maintain the Hardware-in-the-Loop (HILs) test framework for ADAS applications, including ICC, FEB, LKA, and more.
- Conducted integration and regression testing to ensure the reliability of software releases and identify potential issues or defects.
- Actively participated in code reviews to enhance coding standards, ensuring the creation of high-quality test scripts and a maintainable code base.
- Created several scripts to automate laborious manual tasks which improved overall testing efficiency.
- Successfully achieved a **reduction of nearly 60% in the time required to execute test automation** for categories such as NCAP, Failsafe testing.
- Responsible for automating test cases for latest scenarios like R79, R152 etc.

## PROJECTS

### YELPCAMP NODE.JS, EXPRESS.JS, MONGODB

- YelpCamp is a dynamic web application which was built as a part of a web development course.
- Used **HTML** and **CSS** for responsive design and **Node.js** with **Express.js** for server-side processing.
- For data storage and retrieval **MongoDB** was used as it allows user-generated content like reviews and ratings.
- Implemented user authentication and authorization using **Passport.js** for security and seamless user experience.

## ACHIEVEMENTS

Received Star Team Award multiple times due to various Process Improvement tasks undertaken.

- Star Team Award (associated with Tata Consultancy Services)
- Solved **450+** coding problems across multiple platforms.