

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.