

# Rahul Kumar

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## Skills

**Programming Languages:** Java, Python, C, Data Structures & Algorithms

**Web Development & Frameworks:** HTML5, CSS3, JavaScript (ES6+), TypeScript, PHP, React.js, Redux Toolkit, Next.js, Node.js, GraphQL, RESTful APIs, WebSockets, WebRTC, Server-Side Rendering (SSR)

**Backend Development:** MongoDB, MySQL, Redis, Microservices, Performance Optimization, Caching (Redis)

**Design & Architecture:** System Design, Cross-Browser Compatibility, SEO (Search Engine Optimization), Lazy Loading, Web Performance Optimization

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, CloudFormation, Elastic Beanstalk)

**Tools & Platforms:** Git, GitHub, Postman, Google Colab, Botpress, MongoDB Atlas, XAMPP Server, BlueHost, Microsoft Power Automate, Twilio, MSG91, Excel

## Internship Experience

### Software Developer

### Multiplier AI (Sep-2024 to Present)

- **Automation product:** Built a Python-based system for automated data scraping, cleaning, merging and standardization of 1.3 million entries, improving processing time by 85%. Integrated Indian name-matching and gender prediction models for quality control.
- **Client Onboarding Automation:** Developed an automated client onboarding process using GMB APIs, service selection, agreements, real-time PO tracking, Google ads dashboard (campaign data, insights, and performance metrics from Google Ads) integrated with WhatsApp Bot and personalized updates.
- **Technologies used:** React.js, Redux toolkit, Node.js, MongoDB, Express.js, GMB API, PHP, SQL, MSG91, Python, OpenPyXL, Pandas, AI/ML, BeautifulSoup

## Project Work

### Utility Platform Application (June 2024 – July 2024)

- Web application connecting workers (e.g., electricians, plumbers) with customers based on location and work type.
- User-friendly interface with separate registration and login pages for workers and customers.
- Integrated payment gateway for secure transactions between customers and workers.
- Detailed work history for customers and workers, including ratings, feedback, and job tracking.
- **Technologies used:** React js, Node js, Express js, MongoDB

### Image Segmentation and Object Detection Using CNN (February 2024 – June 2024)

- Developed an image segmentation and object detection model using CNN, Detectron2 and ResNet101.
- Used Detectron2 for efficient and scalable object detection, combined with the ResNet101 backbone for deep learning.
- Successfully increased the model's accuracy by 5%, from 88% to 93%, through careful tuning and optimization.
- **Technologies used:** Python, Machine learning, Detectron2, ResNet101

## Education

### B.Tech. in Computer Science and Engineering

Vignan's University Guntur, Andhra Pradesh

Nov 2020 - Jun 2024

**CGPA: 7.5**

### Higher School Examination

Gandhi Inter College Gopalganj

April 2018 - April 2020

**CGPA: 8**

### Secondary Secondary Examination

High School Salempur (Baruali)

April 2017 - April 2018

**CGPA: 7.5**

## Awards and Certificates

- **Teaching Assistant at Vignan University:** Assisted students in improving problem-solving skills, coding practices, and web development.
- Completed web development course by Udemy.
- C++ | DSA(Python) | Cloud Computing | Grade: Elite | Jan-Apr 2021, 2023 NPTEL
- Data Structures and Algorithms in Java by Apna College.
- Business English Certificate (**B1 Grade**), Preliminary English Test (**A2 Grade**) - Cambridge University, 2021, 2023.
- **Secured 5th place** in a national-level Hackathon during Srujanakura in March 2023. Developed a **quiz app** designed to enhance student learning abilities.