

# Uma Sankar Rajavarapu

Portfolio: [umasankar1999.github.io](https://umasankar1999.github.io)

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## EDUCATION

- **IIIT Naya Raipur** Raipur, India  
• *Bachelor of Technology - Computer Science and Engineering; GPA: 8.48* Aug 2016 - Jul 2020

## SKILLS SUMMARY

- **Languages:** (Proficient): C, C++, Python, Javascript, HTML, CSS, SQL (Familiar): Java
- **Technologies & Frameworks:** (Proficient): React.js, Node.js, Express.js, socket.io, Django, Bootstrap, PostgreSQL, MySQL, MongoDB (Familiar): Angular.js
- **Soft Skills:** Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

- **Carl Zeiss** Bangalore  
• *Software Developer (Intern)* Jan 2020 - Present
  - **SOAP API Simulator:** Simulating or Developing the third-party SOAP API's to remove the external dependencies.
  - **Simulator UI :** Developed a UI for the SOAP API simulator to configure the data sent by SOAP API simulator.
  - **Impact:** Development and Testing became lot more easier.
  - **Tech:** Leveraged Knowledge in React.js, Redux, node.js, express.js, SQLite3, Unit testing
- **Maalexi** Remote  
• *Backend Developer (Intern)* May 2019 - Jul 2019
  - **Real-time Auction:** Developed Real-time auction module, where user can bid and update the amount on a product
  - **Login and Sign Up:** Developed Login/Sign Up module with Email and Phone No Authentication and Authorization
  - **REST API for file Storage:** Developed REST API for file storage, where file will be stored in more secure manner using blockchain.
  - **Tech:** Leveraged Knowledge in Node.js, express.js, MongoDB, Mysql, socket.io, AWS services, unit testing.
- **Happea** Remote  
• *Frontend Developer (Free lance)* Dec 2018 - Feb 2019
  - **Wireframes:** Designed wireframes and layouts for the website using Adobe tools.
  - **Frontend Dev:** Developed entire frontend using HTML,CSS,Bootstrap and Javascript.
  - **Tech:** Leveraged Knowledge in Front end Development, Git, Debugging Tools.

## PROJECTS

- **Campus Charcha (Web Development):** Developed a Discussion forum for students of IIIT Naya Raipur, where they can discuss and clarify their doubts. Tech : HTML, CSS, JS, Django, SQLite
- **Comparative Analysis of Presentation Attack Detection Techniques (Machine Learning, Computer Vision) :** We created a several ML models to detect the fake iris (contact lens, etc) where the base is SVM but the feature extraction technique varies. We compared between them and checked which is performing the best for the given type of dataset.
- **Orchard Detection and Tree counting (Deep Learning) :** We created a Deep learning model using MASK R-CNN to detect the Orchards in Google Earth Imagery. And we also counted the trees in detected Orchards using CSRNET Model with an MAE score of 7.28.
- **Hindi Characters Generation using GAN's (Deep Learning):** We generated new handwritten characters which almost seem real by training the GAN model with 96,000 Handwritten hindi character images.
- **Car Racing game for PC (Game Development):** Developed a basic car racing game for PC with two modes 1. Race mode with AI car, 2. Lap Mode. Tech: Unity 3D
- **Online Food Delivery App (Web Development):** Developed a online food delivery website from scratch end-to-end. Tech: HTML, CSS, Js, Django, SQLite

## ACHIEVEMENTS

- Qualified for Snackdown Pre elimination round - 2019
- Open Source contributor for [freecodecamp.org](https://freecodecamp.org), 3-star coder at [codechef](https://www.codechef.com)

## VOLUNTEER EXPERIENCE

- **Event Organizer at TechFest of IIIT Naya Raipur** Raipur, India  
• *Conducted a coding competition with multiple rounds where over 300 members participated*